# The Johns Hopkins University

Conferring of Degrees
At the Close of the
115th Academic Year
May 23, 1991

Digitized by the Internet Archive
in 2012 with funding from
LYRASIS Members and Sloan Foundation

http://archive.org/details/commencement1991

# *Contents*

Order of Procession . . . . . 1

Order of Events . . . . . 2

Johns Hopkins Society of Scholars . . . . . 10

Honorary Degree Citations . . . . . 12

Academic Regalia . . . . . 15

Awards . . . . . 17

Honor Societies . . . . . 21

Student Honors . . . . . 23

Degree Candidates . . . . . 25

As final action cannot always be taken by the time the program is printed, the lists of candidates, recipients of awards and prizes, and designees for honors are tentative only. The University reserves the right to withdraw or add names.

# *Order of Procession*

**MARSHALS**

Sara Castro-Klaren
Eliot A. Cohen
Bernard Guyer
Lynn Taylor Hebden
Franklin H. Herlong
Jean Eichelberger Ivey
Joseph L. Katz
Peter B. Petersen
Martin R. Ramirez
Trina Schroer
Stella M. Shiber
Dianne H. Tobin
James W. Wagner
Steven Yantis

**THE GRADUATES**

❧

**MARSHALS**

Grace S. Brush
Warner E. Love

**THE FACULTIES**

❧

**MARSHALS**

Lucien M. Brush, Jr.
Stewart Hulse, Jr.

**THE DEANS**
**MEMBERS OF THE SOCIETY OF SCHOLARS**
**OFFICERS OF THE UNIVERSITY**
**THE TRUSTEES**

❧

**CHIEF MARSHAL**

Noel R. Rose

**THE VICE PRESIDENT OF**
**THE JOHNS HOPKINS UNIVERSITY ALUMNI ASSOCIATION**
**THE CHAPLAINS**
**THE PRESENTERS OF THE HONORARY DEGREE CANDIDATES**
**THE HONORARY DEGREE CANDIDATES**
**THE INTERIM PROVOST OF THE UNIVERSITY**
**THE CHAIRMAN OF THE BOARD OF TRUSTEES**
**THE PRESIDENT OF THE UNIVERSITY**

# *Order of Events*

William C. Richardson
*President of the University, presiding*

❧ ❧ ❧

**PRELUDE**

Suite from the American Brass Band Journal
G.W.E. Friederich (1821-1885)

Suite from Funff—stimmigte blasenda Music
Johann Pezel (1639-1694)

❧

**PROCESSIONAL**

The audience is requested to stand as the Academic Procession moves into the area and to remain standing after the Invocation.

❧

**FESTIVAL MARCHES**

from "Belshazzar, Flioridante, Ezio, Saint Cecilia's Day, Rinaldo, Scipione and Judas Maccabaeus"
Georg Friedrich Handel
(1685-1759)

❧

**THE PRESIDENT'S PROCESSION**

Fanfare
Walter Piston
(1894-1976)

Grand Entree from "Alceste"
Georg Friedrich Handel
(1685-1759)

❧

## INVOCATION

Van H. Gardner
*Dean*
*The Cathedral of the Incarnation*

❧

## THE NATIONAL ANTHEM

❧

## GREETINGS

Morris W. Offit
*Chairman of the Board of Trustees*

❧

## GREETINGS

Jill Leukhardt
*Vice President, The Johns Hopkins University Alumni Association*

❧

## PRESENTATION OF NEW MEMBERS OF THE SOCIETY OF SCHOLARS

James C. Allen
Camilla Persson Benbow
Morgan Berthrong
David Grob
Lewis H. Kuller
Michel F. Lechat
George W. Mitchell, Jr.
Antonia C. Novello
Gary A. Prinz
Emil Reisler
Michael J.A. Robert-Nicoud
James B. Snow, Jr.
Katepalli R. Sreenivasan
G. Rainey Williams
Edward Ming-Yang Wu

Scholars Presented by M. Gordon Wolman
*Interim Provost of the University*

## THE FESTIVAL BRASS

Ellery B. Woodworth, Conducting

Domine Salvum Fac Patriam Americam
Domine Salvum Fac Praesidem Nostrum
Charles Gounod
(1818-1893)

❧

## CONFERRING OF HONORARY DEGREES

Thomas B. Turner
C. Vann Woodward
Thomas R. Odhiambo

❧

## ADDRESS

Thomas R. Odhiambo
*Director of the International Centre of Insect Physiology and Ecology, Nairobi,Kenya*

❧

# *Conferring of Degrees on Candidates*

## BACHELORS OF ARTS

*Presented by*

Lloyd Armstrong, Jr.
*Dean, School of Arts and Sciences*

❧ ❧ ❧

**BACHELORS OF SCIENCE IN BIOMEDICAL ENGINEERING**
**BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING**
**BACHELORS OF SCIENCE IN CIVIL ENGINEERING**
**BACHELORS OF SCIENCE IN COMPUTER SCIENCE**
**BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING**
**BACHELORS OF SCIENCE IN ENGINEERING MECHANICS**
**BACHELORS OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING**
**BACHELORS OF SCIENCE IN MATHEMATICAL SCIENCES**
**BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING**
**BACHELORS OF ARTS**
**BACHELORS OF CIVIL ENGINEERING**
**BACHELORS OF ELECTRICAL ENGINEERING**
**BACHELORS OF MECHANICAL ENGINEERING**

*Presented by*

V. David VandeLinde
*Dean, G.W.C. Whiting School of Engineering*

❧ ❧ ❧

**PERFORMER'S CERTIFICATES**
**BACHELORS OF MUSIC**

*Presented by*

Robert O. Pierce
*Director, Peabody Conservatory of Music*

❧ ❧ ❧

**BACHELORS OF SCIENCE**

*Presented by*

Carol J. Gray
*Dean, School of Nursing*

❧ ❧ ❧

**ASSOCIATES OF SCIENCE**
**BACHELORS OF LIBERAL ARTS**
**BACHELORS OF SCIENCE**

*Presented by*

Stanley C. Gabor
*Dean, School of Continuing Studies*

❧ ❧ ❧

**MASTERS OF SCIENCE**
**MASTERS OF LIBERAL ARTS**
**MASTERS OF ARTS IN TEACHING**
**MASTERS OF ADMINISTRATIVE SCIENCE**
**CERTIFICATES OF ADVANCED STUDY**

*Presented by*

Stanley C. Gabor
*Dean, School of Continuing Studies*

❧ ❧ ❧

**MASTERS OF SCIENCE**

*Presented by*

Carol J. Gray
*Dean, School of Nursing*

❧ ❧ ❧

**GRADUATE PERFORMANCE DIPLOMAS**
**MASTERS OF MUSIC**
**ARTIST DIPLOMAS**

*Presented by*

Robert O. Pierce
*Director, Peabody Conservatory of Music*

❧ ❧ ❧

**MASTERS OF SCIENCE**
**MASTERS OF HEALTH SCIENCE**
**MASTERS OF PUBLIC HEALTH**

*Presented by*

Alfred Sommer
*Dean, School of Hygiene and Public Health*

❧ ❧ ❧

**MASTERS OF INTERNATIONAL PUBLIC POLICY**
**MASTERS OF ARTS IN INTERNATIONAL AFFAIRS**
**MASTERS OF ARTS**

*Presented by*

George R. Packard
*Dean, Paul H. Nitze School of Advanced International Studies*

**MASTERS OF ARTS**

*Presented by*

Michael E. Johns
*Dean, School of Medicine*

❧ ❧ ❧

**MASTERS OF CHEMICAL ENGINEERING**
**MASTERS OF CIVIL ENGINEERING**
**MASTERS OF ENVIRONMENTAL ENGINEERING**
**MASTERS OF MATERIALS SCIENCE AND ENGINEERING**
**MASTERS OF MECHANICAL ENGINEERING**
**MASTERS OF SCIENCE**
**MASTERS OF SCIENCE IN ENGINEERING**
**MASTERS OF ARTS**

*Presented by*

V. David VandeLinde
*Dean, G.W.C. Whiting School of Engineering*

❧ ❧ ❧

**MASTERS OF ARTS**

*Presented by*

Lloyd Armstrong, Jr.
*Dean, School of Arts and Sciences*

❧ ❧ ❧

**DOCTORS OF EDUCATION**

*Presented by*

Stanley C. Gabor
*Dean, School of Continuing Studies*

❧ ❧ ❧

**DOCTORS OF MUSICAL ARTS**

*Presented by*

Robert O. Pierce
*Director, Peabody Conservatory of Music*

❧ ❧ ❧

**DOCTORS OF SCIENCE**
**DOCTORS OF PUBLIC HEALTH**
**DOCTORS OF PHILOSOPHY**

*Presented by*

Alfred Sommer
*Dean, School of Hygiene and Public Health*

❧ ❧ ❧

**DOCTORS OF PHILOSOPHY**

*Presented by*

George R. Packard
*Dean, Paul H. Nitze School of Advanced International Studies*

❧ ❧ ❧

**DOCTORS OF MEDICINE**
**DOCTORS OF PHILOSOPHY**

*Presented by*

Michael E. Johns
*Dean, School of Medicine*

❧ ❧ ❧

**DOCTORS OF PHILOSOPHY**

*Presented by*

V. David VandeLinde
*Dean, G.W.C. Whiting School of Engineering*

❧ ❧ ❧

**DOCTORS OF PHILOSOPHY**

*Presented by*

Lloyd Armstrong, Jr.
*Dean, School of Arts and Sciences*

❧ ❧ ❧

## STATEMENT TO THE GRADUATES

William C. Richardson
*President of the University*

❧

## BENEDICTION

Gretchen van Utt
*Chaplain*
*The Johns Hopkins University*

❧

## RECESSIONAL

March
C.P.E. Bach
(1714-1788)

March from LeNozze di Figaro
Wolfgang Amadeus Mozart
(1756-1791)

*The audience is requested to remain standing after the Benediction until the principals, officials, members of the faculties, and the graduates have left the area.*

# *The Johns Hopkins Society of Scholars*

The Johns Hopkins Society of Scholars was created by the University's Board of Trustees on May 1, 1967, on the recommendation of President Milton S. Eisenhower. The society—the first of its kind in the nation—inducts former Johns Hopkins postdoctoral fellows, junior faculty, or visiting faculty who have gone on to marked distinction in scholarship or professional achievement in the physical, biological, medical, social, or engineering sciences or the humanities. At least five years must have elapsed since their formal association with the University. The Committee of the Johns Hopkins Society of Scholars, whose members are drawn in equal numbers from among all the academic divisions of the University, elects the inductees from candidates nominated by the divisions having programs for postdoctoral fellows. New members of the Society of Scholars are invested annually at the time of Commemoration Day, Commencement, or some similar occasion. They are presented with a certificate and a medallion with a black and gold ribbon.

Today, we honor 15 new inductees, invested at a ceremony last evening, who bring the society's membership to 267. They are:

Dr. James C. Allen, chairman of the Department of Medicine at the Medical University of South Carolina. A distinguished clinician and investigator, he made seminal observations as a postdoctoral fellow that led to the finding of the GM allotypes on immunoglobulin heavy chains. Later, in collaboration with Dr. Michael Apicella, he demonstrated the immunopathogenesis of pleural effusions in tuberculosis.

Dr. Camilla Persson Benbow, professor of psychology at Iowa State University. A productive and creative investigator, she received four Hopkins degrees, including a doctorate, by age 24 and was promoted to full professor at Iowa State at 33. She is widely published in educational development and psychology. Formerly a co-director of the Study of Mathematically Precocious Youth at Hopkins, she now directs the study's Iowa State location.

Dr. Morgan Berthrong, pathologist at Penrose Hospitals in Colorado Springs, Colo., and clinical professor of pathology at the University of Colorado and University of New Mexico schools of medicine. Widely known for his definitive published studies of radiation injury, he is regarded as an expert diagnostic pathologist and as an inspiring teacher.

Dr. David Grob, director emeritus of medicine and medical education at Maimonides Medical Center in New York and medical director of the Maimonides Research and Development Foundation. He has long been interested in the physiology and pathophysiology of neuromuscular transmission and in the pathogenesis of myasthenia gravis. In 1982, this research won him the achievement award of the Myasthenia Gravis Foundation.

Dr. Lewis H. Kuller, chairman of the Department of Epidemiology at the University of Pittsburgh Graduate School of Public Health. He is one of the nation's leaders in clinical and chronic disease epidemiology, and has applied epidemiological methods to a wide variety of public health and clinical problems. His publications play a significant role in bridging the gap between epidemiology and clinical medicine.

Dr. Michel F. Lechat, dean of the School of Public Health at Catholic University of Louvain in Belgium. He has served as president of the International Leprosy Association and the International Leprosy Union, and is also director of the Research Center on Disaster Epidemiology at Catholic University of Louvain. He was one of the first to suggest that epidemiologic principles could be applied to improving disaster preparedness and response. He has served as a World Health Organization consultant or adviser in two dozen nations.

Dr. George W. Mitchell Jr., professor of obstetrics and gynecology at the University of Texas Health Science Center at San Antonio. An expert in gynecologic oncology and gynecological surgery, he has set standards and policy at every level within the field of obstetrics and gynecology. His contributions have been recognized by the establishment of a chair in his name at the Tufts University School of Medicine, where he is a former department chairman and now an emeritus professor.

Dr. Antonia C. Novello, surgeon general of the U. S. Public Health Service. She is the author or co-author of more than 75 articles and chapters on public health policy, nephrology, and pediatrics. She is an unflagging advocate of public health training and the need to attract more women and minorities into the field. She continues the tradition of using the office of surgeon general as a platform from which to make important contributions to public knowledge of health issues, including AIDS, smoking, immunization, and, recently, alcohol abuse by college-age students.

Dr. Gary A. Prinz, head of the Magnetic Multilayers Section of the Naval Research Laboratory in Washington. As a postdoctoral fellow, he was the first to observe evidence for coupling between rare-earth ions in an insulating host crystal structure using high resolution spectroscopic measurements. At the Naval Research Laboratory, he was the first to use pulsed molecular gas lasers as sources to carry out magnetic resonance experiments in the far infrared. He was elected a fellow of the American Physical Society in 1984.

Dr. Emil Reisler, chairman of the Department of Chemistry and Biochemistry at UCLA. He is internationally known for insightful work on the biochemical and biophysical properties of the contractile proteins of muscle. He is considered a world leader in using biochemical approaches to clarify the molecular processes in muscle movement and force generation.

Dr. Michel J.A. Robert-Nicoud, professor of cell biology and director of the laboratory of microstructure and nuclear physiology at Joseph Fourier University in Grenoble, France. He is known for pioneering contributions to the study of the cell nucleus, and chromosomes in particular. He is also highly regarded for his application of novel microtechniques to the study and manipulation of chromosomes, and especially for single chromosome microsurgery and confocal microscopy.

Dr. James B. Snow Jr., director of the National Institute on Deafness and Other Communication Disorders. His publications cover the entire range of otolaryngology, including taste and smell, head and neck cancer, and auditory research. His studies on the blood flow of the inner ear, done nearly 20 years ago, are still quoted in the clinical literature. He ha been director of the National Institutes of Health's new institute on deafness since 1990.

Dr. Katepalli R. Sreenivasan, chairman of the Department of Mechanical Engineering and professor of mechanical engineering and physics at Yale. An established authority in the field of turbulence, he has, in the past five years, pioneered the application of the new techniques of chaos and fractals to the study of turbulence, opening a new field of research.

Dr. G. Rainey Williams, chairman of the Department of Surgery at the University of Oklahoma College of Medicine. One of the outstanding cardiothoracic surgeons trained by Dr. Alfred Blalock in the 1940s and 1950s, he is one of the few surgeons in the nation who have remained broadly based, performing general as well as thoracic, cardiac, and vascular surgery. He was among the first to successfully perform limb reimplantation.

Dr. Edward Ming Yang Wu, director general of water quality protection in Taiwan. He has, since 1989, supervised Taiwan's water pollution prevention and control efforts and research. He also has done extensive research in mathematical modeling of water quality, environmental systems analysis, water and waste water engineering, and water resources engineering and systems analysis.

*Citation Read by*
*Samuel P. Asper*
*in Presenting*
*Thomas B. Turner*
*for the Degree of Doctor of Humane Letters*
*May 23, 1991*

Few living today are rooted in Johns Hopkins medicine as deeply as you, or, like you, have personal memories of any of the founding Four Doctors. And no one else can look back on six decades of medical progress and education at this institution from your singular perspective. "Tommy," as you are known to friends and colleagues worldwide, you have spent almost your entire career—nearly 65 years—at Johns Hopkins. You carried the Hopkins name to the Caribbean for research on indigenous diseases. As chairman of the Department of Microbiology in the School of Hygiene and Public Health, you continued your distinguished research and teaching.

Then, in 1957, you became dean of the School of Medicine, the school to which you had not even applied 37 years before, concerned, ironically, that your science background was not strong enough. During 11 years as dean, you guided the school through the greatest expansion in its history, at the same time preserving its tradition of quality and innovative education. On stepping down as dean, you did not step aside. You established the Medical Institutions' Archives; in *Heritage of Excellence*, you published a definitive history of Hopkins medicine. You continued to spur progress in the health sciences by serving on several foundations and commissions. Now in your 90th year and in vigorous good health, your contentment with life is summed up in words from your autobiography: "Medicine as a career is soul stretching in its human demands, mind boggling in its potentialities, and peace giving in its satisfactions."

Thomas B. Turner, with warm affection and in grateful recognition of your unparalleled service to Johns Hopkins and to medicine as physician, scientist, educator, and administrator, The Johns Hopkins University confers upon you the degree of Doctor of Humane Letters, *honoris causa*.

*Citation Read by*
*Grace Goodell*
*in Presenting*
*Thomas R. Odhiambo*
*for the Degree of Doctor of Humane Letters*
*May 23, 1991*

Since 1970, you have been known throughout the world as one of the leading scientists and educators in Africa, serving your colleagues, your students, and your countrymen as the founder and first director of the International Centre of Insect Physiology and Ecology in Nairobi, Kenya. Scientists from outstanding universities throughout the world have chosen to work by your side, and have made major breakthroughs while studying insect borne diseases that ravage human, plant, and animal health in the tropics. You personally are known internationally for your research on tropical entomology, but were never content merely to work in your laboratory.

You believe that scientists should serve the world, and you have supported that belief with action. A founder of the International Commission on Food and Peace, chairman of the African Neuroscience Task Force, a trustee of the World Wildlife Fund in Kenya, you are also an inspiration and driving force behind the developing African scientific community. This is evident in your role as founder and first president of the African Academy of Sciences. Your contributions were recognized by UNESCO in 1979 when you received the Albert Einstein Medal. The United Nations has sought you out repeatedly over the years for advice on education, the environment, pest control, and the impact of scientific change on society. You even have introduced science to children through your books. Your accomplishments exemplify the excellence and commitment of the world's finest scientists and hold forth for young people everywhere the highest ideals of intellectual dedication and service.

Thomas R. Odhiambo, in gratitude for your scientific leadership, your tireless service, and your inspiring example as a visionary, humane educator, The Johns Hopkins University confers upon you the degree of Doctor of Humane Letters, *honoris causa.*

*Citation Read by*
*John Higham*
*in Presenting*
*C. Vann Woodward*
*for the Degree of Doctor of Humane Letters*
*May 23, 1991*

For more than half a century, your writing and teaching—and that of your students—have defined the history of the American South for every serious scholar in this country and overseas. When you began, Southern history still centered in a golden age before the Civil War, and still told a story of progress and valor on the part of an indomitable, united white race. You turned Southern history into a story of conflict and upheaval, in which all races and classes participated, and every triumph was edged with defeat. All this you shaped into powerful narratives, in language free from pedantry, taut with energy, and flecked with humor and irony. No other book written in the middle decades of the 20th century on any phase of this country's past has survived into the final years of the century so undamaged by subsequent research and criticism as your master work, *Origins of the New South, 1877-1913,* produced (to our everlasting pride) while you taught at Johns Hopkins from 1946 to 1961.

We honor you also for moral engagement in the problems of the present, and most particularly for making your vision of a new Southern history a vital force in the civil rights revolution of our time. Your little book of lectures, *The Strange Career of Jim Crow*, offered a whole generation of American youth a persuasively empirical basis for believing that discrimination and segregation could be overcome. Martin Luther King Jr. was not exaggerating when he called *The Strange Career* "the historical Bible of the civil rights movement." This, too, you accomplished from a chair at Johns Hopkins.

Over the succeeding years, your involvement simultaneously in the work of your profession and the wider issues of American culture has never faltered. C. Vann Woodward, in gratitude for your creative scholarship, dedicated teaching, and enduring advocacy of the principles of equality and freedom, The Johns Hopkins University confers upon you the degree of Doctor of Humane Letters, *honoris causa.*

## *The University Mace*

The University Mace carried by the Chief Marshal, Dr. Noel R. Rose, was first used at the 1954 Commemoration Day Exercises. Eight symbols are handwrought in sterling silver on an ebony staff. The symbols represent our cultural development from ancient times, through the Middle Ages and the Renaissance,to the modern era.

## *The Presidential Insignia*

University President William C. Richardson is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of each of the eleven Johns Hopkins University Presidents are engraved on the faces of eleven of the links. On the reverse are engraved the names and dates of office of each President. Five blank links for future use are included. The University Seal completes the design.

## *Academic Dress*

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round, but has changed to the varieties that we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms worn through the slits in the elbows of the sleeves. The Doctor's gown, also worn open, has full, bellshaped sleeves with three horizontal bars stitched across the upper arm. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are of the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one half feet long. The Doctor's hood is four feet long, of fuller shape and rounded at the base.

The hood is bordered with velvet, the color of which indicates the field of study in which the degree was earned:

Dark blue—Philosophy
Light blue—Education
Green—Medicine
Salmon pink—Public Health
Orange—Engineering
Gold-yellow—Science
White—Arts and Letters
Pink—Music
Purple—Laws
Apricot—Nursing

The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold chevron—Johns Hopkins
Light blue, white chevron—Columbia
Dark blue—Yale
Blue with white chevron—Duke
Dark blue, two orange chevrons—Illinois
Light blue, two white chevrons—North Carolina
Old gold, maroon chevron—Minnesota
Gold gold—Iowa
Gold, blue chevron—University of California at Berkeley
Gold—Virginia
Purple, gold chevron—Northwestern
Carnegie Tartan—Carnegie-Mellon
Purple—New York University
Bright red—Wisconsin
Plum, with scarlet—London
Maroon—Chicago
Crimson—Harvard
Carnelian, two white chevrons—Cornell
Cardinal—Stanford
Cardinal red and gray—Massachusetts Institute of Technology
Red, tri-Chevron in center—Heidelberg
Dandelion yellow—Michigan
Maize, azure blue chevron—Sorbonne
Yellow and white—Rochester

❧ ❧ ❧

## *The University Motto*

Veritas vos liberabit.

The truth shall make you free.

*St. John 8:32*

# *Awards*

## *In the Schools of Arts and Sciences, Engineering and Medicine*

Louis Sudler Prize in the Arts
for Excellence in the Creative Arts
*Awarded to Joel Thorp Katz*

## *In the Schools of Arts and Sciences and Engineering*

Roberto R. Arellano Award
for outstanding achievement in the junior year by a Writing Seminars major
*Awarded to Mikos Grieco*

AT&T Outstanding Senior Award in Computer Science
*Awarded to Todd Anthony Mancini*

Louis Azrael Fellowship in Communications
for demonstrated excellence in a field of mass communications
*Awarded to Amy Melissa Parker*
*Jack Joseph Lipkin*
*Evelyn Ann Jerome*
*Noel Marie LaVallee*
*Harry Milling*
*Larry Hochberg*

Biomedical Engineering Award
for outstanding effort in research in Biomedical Engineering
*Awarded to Mary Katherine Horner (undergraduate)*
*Zahi Adel Fayad (master's cand.)*
*David O'Shaughnessy (master's cand.)*
*Kamal Vij (master's cand.)*

Alexander Butler Prize
for the best research paper by a first year graduate student in History
*Awarded to Douglas Charles Rossinow*

Mary Farrell Camerer Award
for outstanding achievement in the junior year by a Writing Seminars major
*Awarded to Elin Hilderbrand*

Eugenio and Patricia Castillo Award
to the best first or second year graduate student in Economics
*Awarded to Alain D'Hoore*

Chemical Engineering Undergraduate Research Award
for demonstrated contributions to research in Chemical Engineering
*Awarded to Kevin J. Ledger, Jr.*

Civil Engineering Award
for outstanding achievement by a senior in Civil Engineering
*Awarded to Bennett Scott May*

G. Stanley Hall Prize
for outstanding achievement by an undergraduate in Psychology
*Awarded to Jennifer Peverly*

The Max Hochschild Fund
The prize is awarded annually to the undergraduate student in Business and Industrial Management who has shown the greatest promise and proficiency in this field and is
*Awarded to David Schwartz*

The Jacob H. Hollander Prize
for excellence in writing by a Writing Seminars junior
*Awarded to Timothy Donnelly*

The 3 Arts Club of Homeland Award
for outstanding achievement in the Writing Seminars
*Awarded to Craig Bernardini*

William H. Huggins Award
for outstanding service and achievement by a senior and junior in Electrical and Computer Engineering
*Awarded to Choon Kiat Goh (Class of '91)*
*Howard G. Stephan (Class of '92)*

IBM Outstanding Undergraduate Award in Computer Science
*Awarded to Aaron David Redish*

Adolf Katzenellenbogen Memorial Prize
for outstanding work in Art History
*Awarded to Maria Elizabeth Gough*
*Stanko Kokole*

Donald E. Kerr Memorial Medal
to the outstanding undergraduate major in Physics and Astronomy
*Awarded to Martin B. Stemmler*

Arthur Kouguell Prize
to the outstanding undergraduate major in History
*Awarded to Jonathan Missner*
*Jonathan Roberts*

Ernest M. Marks Award
in recognition of excellence in instruction and research in Chemistry
*Awarded to Susan T. Arnold*
*Sandra Song*

Mathematical Sciences Achievement Award
for outstanding achievement by an undergraduate
*Awarded to Noah Estrin*

Paul A. McCoy Prize
for the most distinguished masters essay in Political Science
*Awarded to James Wiley*

The William D. McElroy Award
for meritorious research conducted by an undergraduate in the biological sciences
*Awarded to Andrew Chen*
*Daniel Weaver*

Eliezer Naddor Postdoctoral Fellowship
to a graduating Ph.D. student in Mathematical Sciences with an outstanding record in research and superior promise for an academic career in research and graduate teaching
*1991-92 Fellow: Ann N. Trenk*

Robert B. Pond, Sr., Achievement Award
to the graduating senior in Materials Science and Engineering who best exemplifies Professor Pond's commitment to scholarly and humane values
*Awarded to Jacob Friedman*

President's Commendation for Achievement in the Arts
for outstanding contributions to the Arts in the Johns Hopkins Community by graduating seniors
*Awarded to Jeremy Blynn*

The Curt P. Richter Award in Behavioral Biology
in recognition of outstanding achievement in the Behavioral Biology Program
*Awarded to Cathy Lomelino*

Sarah & Adolph Roseman Achievement Award
in recognition of outstanding accomplishment in Chemistry
*Awarded to Min Li*
*Harry W. Sarkas*

Roulston Prize
for outstanding achievement and excellence in German
*Awarded to Thomas Sebastian*

Julian C. Stanley Award
for the undergraduate psychology major who most closely approximates Dr. Stanley's personal and professional standards of excellence
*Awarded to Susan Stoner*

The J.J. Sylvester Prize
for outstanding achievement by a senior in Mathematics
*Awarded to David Andrew Schwartz*

Robert W. Tucker Award
for the most distinguished senior thesis in International Studies
*Awarded to Jennifer R. D'Urso*

Julius Turner Prize
for the most distinguished senior thesis in Political Science
*Awarded to Matthew Bosworth*

The John Boswell Whitehead Award
for outstanding achievements by an undergraduate in Electrical and Computer Engineering
*Awarded to Thomas S. Sosnowski (Class of '91)*

Loy Wilkinson Award
for a demonstrated record of academic excellence, leadership, and service in Chemical Engineering
*Awarded to Laura E. Balog*
*Shari H. Zuskin*

## *In the Peabody Conservatory of Music*

The Baltimore Music Club Award in Accompanying
*Awarded to Sandra Murray*

*The Rose and Lou Becker Prize in Violin*
*Awarded to Christian Colberg*

The Martha and William Bill Memorial Prize in Clarinet
*Awarded to Charlene Critcher*

The P. Bruce Blair Award in Composition
*Awarded to Paul J. Zdunek*

The George Castelle Prize in Voice
*Awarded to Kelly Hijleh, Allison Charney and Steven Marking*

The Israel Dorman Prize in Strings
*Awarded to Sze-Long Wong*

The Anita Erdman Prize in Opera
*Awarded to Melinda Zagarino*

The Pauline Favin Prize in Piano
*Awarded to Xak Bjerken*

The Lillian Gutman Prize in Piano
*Awarded to Lori Kaufman*

The Hos Award in Guitar
*Awarded to Matthew Gould*

The Josef Kaspar Prize in Violin
*Awarded to Li Qing*

The Gustav Klemm Award
*Awarded to Steven Hilmy*

The Irving Lowens Prize in Music Criticism
*Awarded to Peter Krask*

The Maryland State Music Teachers Association Award
*Awarded to Philip Hale*

The Rose Marie Milholland Prize in Piano
*Awarded to Claudia Chen and Ivana Svarc*

The Ada Arens Morawetz Prize in Composition
*Awarded to Christopher Mandra*

The Otto Ortmann Prize in Composition
*Awarded to Gary Michael Brown*

The Christopher Percy Award
*Awarded to George Colligan*

The Harold Randolph Prize in Performance
*Awarded to Elizabeth Lawrence*

The Randolph S. Rothschild Award in Composition
*Awarded to Joshua Fineberg*

The Alice and Leary Taylor Prize in Performance
*Awarded to Deborah Boldin*

The Zaidee T. Thomas Prize in Voice
*Awarded to Robin Bourguignon*

The Zaidee T. Thomas Prize in Instrumental Performance
*Awarded to Kuljit Rehney and Michael Center*

The Annie Wentz Prize in Voice
*Awarded to Rebecca Broberg*

## *In the School of Medicine*

The Henry Strong Denison Scholarship
The Henry Strong Denison Fund for Medical Research in memory of Henry Strong Denison, M.D., 1908, is used for the specific purpose of aiding in the training for research of young people deemed by the Medical Faculty to be especially gifted for a career in medical investigation.
*Awarded to Laura Joan Balcer—1989-90*
*Leslie John Bisson—1990-91*
*Leonidas George Koniaris—1990-91*
*Jane Anoush Oski—1988-89*
*Dante Joseph Pieramici—1990-91*

Sandoz Award
*This award provided by the Sandoz Pharmaceutical Company recognizes excellence in the field of Pharmacology.*
*Awarded to Barbara Stauch Slusher—1990-91*

Laurel and Clarence H. Koennecke Award
The Laurel and Clarence H. Koennecke Award was established to recognize those students showing most promise in the surgical field of Gynecology.
*Awarded to Cecilia Mary King—1990-91*

The Franklin Paine Mall Prize In Anatomy
The Franklin Paine Mall Prize in Anatomy established by Dr. Miley B. Weston, an alumnus of the School of Medicine, is given in the name of Franklin Paine Mall, the first professor of Anatomy in the School of Medicine.
*Awarded to Leslie John Bisson—1987-88*
*Jennifer Bupp Meko—1987-88*
*Masako Shimamura—1987-88*

The Paul Ehrlich Awards
The Paul Ehrlich Awards were established to honor Dr. Paul Ehrlich with funding originally granted by Dr. Emmanuel Libman. The awards, which recognize student research contributions, are presented each year at Young Investigators' Day.

The Paul Ehrlich Graduate Student Award
*Awarded to Kan Liao—1990-91*

The Paul Ehrlich Research Award
*Awarded to Robert Steven Sikorski—1990-91*

Michael A. Shanoff Research Award
The award is made annually to a student for significant research contribution in the medical sciences. The award is made possible by a bequest from the family and friends of the late Dr. Michael A. Shanoff, who earned his undergraduate degree and M.D. and Ph.D. degrees from The Johns Hopkins University.
*Awarded to Philip Arthur Cole—1989-90*
*Tamara Lea Doering—1990-91*
*William Harras Landschulz—1988-89*

The David Israel Macht Memorial Prize
The David Israel Macht Memorial Prize was established in 1983 by the family of Dr. Macht to commemorate the centenary of his birth. Dr. Macht was a member of the faculty of the Departments of Pharmacology and Medicine in the early part of this century and was a pioneer investigator in the field of opiate alkaloids. The prize is intended to recognize excellence in investigation by a student in the School of Medicine.
*Awarded to Nikola P. Pavletich—1990-91*

Harold Lamport Biomedical Research Prize
The memory of Dr. Harold Lamport, a distinguished investigator, is honored by this prize established by the Lamport Foundation. The prize recognizes research contributions.
*Awarded to Michael Patrick Boyle—1990-91*
*Adrienne Laura Richards—1990-91*

CIBA Award for Outstanding Community Service
The CIBA Pharmaceutical Company makes a yearly award to that student in the second year of the School of Medicine who is judged by classmates to have made the greatest contribution to our community.
*Awarded to Susan Dona Cummings—1987-88*
*Edward Paul Junkins, Jr.—1988-89*

## *In the School of Hygiene and Public Health*

Alumni Association Scholarship Award to students of outstanding promise
*Awarded to Alison Snow Jones (1985)*

Erwin Shayne Benjamin Award
for outstanding student research in the field of congenital birth defects and/or childhood disabilities
*Awarded to Christina August Hecht (1990)*

Ruth B. Freeman Award
to a graduating doctoral nurse to recognize academic performance and an outstanding thesis
*Awarded to Mary Lou Rorabaugh*

Paul A. Harper Award
to degree candidates in the Department of Population Dynamics to recognize both achievement and promise of contributions to the field of population
*Awarded to Dileep Vishnu Mavalankar (1990)*
*Karungari Kiragu*
*XiYan Zhao*

John C. Hume Doctoral Award
to a graduate for significant research in the Department of Health Policy and Management
*Awarded to Alison Snow Jones*

John C. Hume Masters of Public Health Award
to a graduate for academic excellence and professional promise
*Awarded to Ellen M. Hutchins*
*Gianfranco Pezzino*

Cornelius W. Krusé Award
for scholarly excellence in Environmental Health Sciences
*Awarded to Lorraine Evelyn Cathers Twerdok*

Harry D. Kruse Award
for outstanding doctoral research in the field of nutrition and public health
*Awarded to Siti Norazah Zulkifli (1988)*

Long and Widmont Memorial Foundation Award
for outstanding dissertation research and professional promise
*Awarded to Alexander F. Ross (1989)*

John P. Young Memorial Prize
for the best student paper in the field of health finance economics
*Awarded to Charles Brace Reuland (1990)*
*Jane Harriet Forman*

## *In the School of Nursing*

Fanna Jones Beckwith Cullen Award
in recognition of the highest standards of nursing practice and executive ability
*Awarded to Suzie Ann Blevins and Susanna Elizabeth Hathaway*

Eleanor Wade Custer Award
to a student who most successfully combines commitment to the nursing profession with sensitivity to one's fellowman
*Awarded to Becky Lynn Ross*

Betty Cuthbert Award
to a student who demonstrates outstanding commitment and service to nursing and the University
*Awarded to Susanna Elizabeth Hathaway*

Mary and Grainger Marburg Award
in recognition of a student who consistently exhibits outstanding clinical nursing expertise
*Awarded to Ruth Henry Geissler*

Robert G. Merrick Award
to a student demonstrating outstanding leadership in the field of nursing
*Awarded to Suzie Ann Blevins*

Ruth Dale Ogilby Award
in recognition of exceptional academic performance in the Master's program
*Awarded to Laura Sheely and Mary Ann White*

Edna Schoen Memorial Award
to a student demonstrating excellence in clinical practice
*Awarded to Kim Elizabeth Mudd*

Joan Sutton Award
to a student demonstrating a strong dedication to professional nursing, clinical excellence and interdisciplinary practice
*Awarded to Margaret Mary McLaughlin*

Academic Excellence Award
to a student whose academic performance has been judged to be outstanding
*Awarded to Ellen Waff and Paula Winik*

Research Award
to a student demonstrating intellectual curiosity and creativity in nursing research
*Awarded to Nancy Elizabeth Bolan*

The Church Home and Hospital Nursing Alumnae Award
recognizes a student who best exemplifies a humanistic approach to nursing while integrating the art, science and the spirit of nursing
*Awarded to Lisa Marie Shook*

The Johns Hopkins Nurses' Alumni Association Award
recognizes a student whose leadership ability is combined with clinical competence and an inquiring mind
*Awarded to Heather Marie Spooner*

Sinai Nurses' Alumnae Association of Sinai Hospital, Inc. recognizes a student who exhibits enthusiasm, compassion and a positive approach to problem solving in nursing
*Awarded to Rosanna Lynn Bacon*

## *In the School of Continuing Studies*

Delta Sigma Pi Scholarship Key
in the Division of Administration and Business for the highest average in the undergraduate programs
*Awarded to Kathleen Alice Kovaly*

Edward J. Stegman, C.P.A., Memorial Award
in the Division of Administration and Business for excellence in the study of Administrative Science at the graduate level
*Awarded to Linda Droter Bailey*
*Mark Albert Bassett*
*Christine Ann Fonder Braccio*
*Carol Stephenson Bullock*
*Michael George Chaconas*
*Lewis L. Cox, Jr.*
*James Thomas Crider*
*Glen Davis*
*Maria Jocelissa Tan-Gatue del Rosario*
*Robert Jeffrey Evans*
*Kenneth E. Fahnestock*
*John William Ferkany*
*D. Danielle Ferris*
*Robert Milton Geldmacher*
*Michael I. Haas*
*Adrienne Townes Haden*
*Louise H. Hanson*
*Pamela Jayne Heck*
*Eugenia Klikna-Kokes*
*Stefanie M. Light*
*Robert Edward Limmer*
*James Lynn Matlack*
*Kelly Potter Mobley*
*Margaret McCarthy Murphy*
*Mary Alice Robinson*
*Barbara Stauch Slusher*
*Tressa Bailey Springmann*
*Tracey Anne Steinberg*
*Laura Marie Tillman*
*F. Faith Vance*
*Brian M. Varney*
*Patricia deLorenzo Wafer*
*Lisa Ann Wetzel*
*Diane Wojciechowski*
*Michelle Judith Wright*

Wall Street Journal Student Achievement Award
in the Division of Administration and Business for outstanding scholarship in the undergraduate programs and exceptional promise of future success
*Awarded to Phyllis B. Jensen*

## *In the Paul H. Nitze School of Advanced International Studies*

William C. Foster Award
to a second year student for sound scholarship and a record of leadership and distinguished service to SAIS exemplary of the high qualities of integrity, loyalty and ability admired in Mr.Foster
*Awarded to John Kremer IV*
*Jeffrey Beall Lilley*
*Edith P. Quintrell*

Christian A. Herter Fellowship
to the member of the second year class with the most outstanding record during the first year
*Awarded to Anneke Jessen*
*Todd Turner Schneider*

# *Honor Societies*

## *Phi Beta Kappa*

### *From the Junior Class in the School of Arts and Sciences*

William Harold Aaronson
Daniel Louis Abrams
Eric Arends
Craig Henry Bassing
Jeanne Marie Grunwell
Misop Han
David Joseph Istvan
Jeffrey Scott Morgheim
Jay Hong Park

### *From the Senior Class in the School of Arts and Sciences*

#### *Elected in 1989-90*

Vincent Paul Briscuso
Jonathan Allan Clark
Matthew Edward Cunningham
Michael Bradley Datto
Paul Alexander Kramer
David Edward Liss
Alison Michele Samitt
David Michael Shaw
Martin B. Stemmler
Thomas Hyunsop Woo

#### *Elected in 1990-91*

Max Ahn
Russell Tod Alexander
Ali Bahadori
Clay Elliott Beveridge
Prakash K. Bhuyan
Matthew Herrick Bosworth
Kenneth Brock Bowman
Stephen Douglas Brown
Joseph Patrick Buffington
Thomas Barnett Cleary
Norvin Aaron Clontz II
Jennifer Rebecca D'Urso
Elisabeth Morrison Dahl
Nellie Bernadette DeShetler
Rory Cooke Dicker
Thomas Dreyfus Dretler
Jon Christopher Driscoll
Jason Michael Fisher
Lori Sue Fleming
Mark Joseph Friedman
John Anthony Gillespie
Allen Tracy Grisson
Jeffrey Curtis Grossman
James Delos Hadley
Edith Emily Haritatos
Elin Ruth Hilderbrand
David Jay Hirsch
Everett Hsu
Cecily Meredith Hurst
Jill Marie Kress
David Sunjin Lee
Jin Sung Lim
Kek Khee Loo
Michael William Morris, Jr.
Tamara Susan Paragino
Jennifer Rose Peverly
Yuri Ann Saito
David Andrew Schwartz
Laura Isabelle Smith
Paris Spanolios
Cristian Roberto Tampe
Drew Avedis Torigian
Jennifer Ejen Tseng
Peter Joseph Uddo
Karen Ann Wendel
Demark Lee Winget
Judith Wood

### *From the Doctor of Philosophy Candidates in the School of Arts and Sciences*

Carole Jean Spangler
Michimasa Tanabe

### *From the School of Medicine*

Leslie John Bisson
Kristin Lynn Weber

### *From the School of Hygiene and Public Health*

Kanta Alvi
Alison Snow Jones
Xin-Hua Liu

## *From the Paul H. Nitze School of Advanced International Studies*

Erin Keown  Russell Lawrence Stein

*Pink and blue ribbons worn on candidates' robes indicate their induction in Phi Beta Kappa.

## *Tau Beta Pi*

## *National Engineering Honor Society*

### *From the Junior Class in the G.W.C. Whiting School of Engineering*

Steven Bierer
Gerald Brann
Raymond Chan
Christopher Chen
Wendy Chiu
Crist Clark
David M. Hall
Jason Heth
Sachiko Hirosue
Sandeep Jain
Jean Lin
Jonathan Lowthert
Pankaj Merchia
Sandeep K. Singhal
Howard Stephan
Anthony Stratakos
John H. Wang
Jeff Wolbach

### *From the Senior Class in the G.W.C. Whiting School of Engineering*

### *Elected in 1988-89*

Manish Arvind Shah

### *From the Senior Class in the G.W.C. Whiting School of Engineering*

### *Elected in 1989-90*

Subrat Biswal
Robin Valerie Blasberg
Alberto Miguel Cairo
James Chang
Daryl Ming Chen
Stephen Chong
David Yongsik Chung
Richard Bradley Dause
Edward Pettet Davis
Choon Kiat Goh
Gary Evan Hsich
Kristie Lee Kantowski
Peter Junghan Kim
Danielle Joanne Marchione
Bennett Scott May
Joseph Daren Neff
Eve Parojcic
Cynthia Amy Quan
Glenn H. Sabin
Robert Paul Silverman
Thomas Staubsach Sosnowski

### *Elected in 1990-91*

Hal Bowman
Floyd Andrew Bullard
Dennis Hawkon Chang
Thomas Edwards
Jeffrey Alan Hertz
Susan Ellen Moyher
Susan Lynn Roweton

### *From the Part-Time Engineering Program*

Alan D. Chiarito
Robert S. Rider
John S. Fitzhugh, Jr.
Alice F. Lium
Douglas T. Yoest

## *Alpha Omega Alpha*

## *Honor Medical Society*

Lisa Shoshana Abrams
Katrina Alison Armstrong
Leslie John Bisson
Eric Jason Cohen
Kathy Sue Durham
Martin Gary Edwards
John Michael Kane III
Tony Wei-hsiu Ho
William Harras Landschulz
Todd Michael Lasner
Mary Robertazzi Mailloux
Jennifer Bupp Meko
Melissa Sue Pessin
Dante Joseph Pieramici
Jeanne Marie Santoli
Margot Anne Schwartz
Mark Alan Silberman
Ajay Verma
Kristin Lynn Weber
Karl Arthur Wolff IV
Belinda Yun-Mae Yim

## *Delta Omega*

*National Public Health Honor Society*

Sandro Accorsi
Kanta Alvi
Shams El Arifeen
Ross Joseph Brechner
Mary Jean Cismowski
Susan E. Coffin
Ana Victoria Diez Roux
Jane Harriet Forman
Paul Alan Gaist
Sarah Claudette Hayward
John David Hundt
Alison Snow Jones
Barnett Sheldon Kramer
Xin-Hua Liu
Proscovia Lubega
Theodore George MacKinney
Susan Beth Manoff
Fokke Meima
Mark Allen Melanson
Pascal Claude Ortiz
Theresa Jeanne Reinhart
Charles Brace Reuland
James Richard Riddle
Patricia Robbins Robuck
John Ruthinoski
Gerald Stephen Scholl
William G. Sciarillo
Nicole Sharon Simmons
Agnes Laure Bernadette Soucat
Eric Stewart Starbuck
Robert Milton Stephens
Lorraine Evelyn Cathers Twerdok
Joan L. Valentine
Xiaobin Wang
Virginia Marie Weaver
Elizabeth A. Zenger

## *Pi Kappa Lambda*

*National Music Honor Society*

Charles Ronald Ellis
Mark Marcham

# *Honors*

## *Baccalaureate Candidates in the School of Arts and Sciences*

*Graduating with General Honors*

Max Ahn
Natalie Jae Albert
Russell Tod Alexander
Ali Bahadori
Clay Elliott Beveridge
Molina Bhatnagar
Prakash K. Bhuyan
Matthew H. Bosworth
Vincent Paul Briscuso
Stephen Douglas Brown
Joseph Patrick Buffington
Thomas Barnett Cleary
Norvin Aaron Clontz II
Charles Francis Connolly
Matthew Edward Cunningham
Elisabeth Morrison Dahl
Michael Bradley Datto
Samuel Kang-Nien Dawn
Nellie Bernadette DeShetler
Rory Cooke Dicker
James Roy Diener
Thomas Dreyfus Dretler
Jon Christopher Driscoll
Jennifer R.M. D'Urso
Lisa Feldmann
Sharon Rebecca Fine
Jason Michael Fisher
Mark Joseph Friedman
John A. Gillespie
Kathleen Louise Green
Allen Tracy Grisson
Jeffrey Curtis Grossman
Erica Evette Gum
David Henry Hackos
James Delos Hadley
Fariba Makarehchian Hamedani
Edith Emily Haritatos
Elin Ruth Hilderbrand
David Jay Hirsch
Alice Jiayi Ho
Sharyn Elise Horowitz
Everett Hsu
Stephen Eahl Kim
Jill Marie Kress
Richard Chin-Hung Kuo
David Matthew Laser
David Jung An Lee
David Sunjin Lee
Olivia Lerner
Jin Sung Lim
David Edward Liss
Kek Khee Loo
Mark Darius Robert Maneche
Shoshana Miriam Miller
Michael William Morris, Jr.
Tamra Lynn Myers
Shane S. Pak
Jennifer Rose Peverly
Robert Francis Porcarelli
Geetha Shiva Rao
Adrienne Rencic
Andrew Chamberlin Rieser
Jonathan Abram Roberts
Bess Allison Rose
Amit Pratim Saha
Yuri Ann Saito
Alison Michele Samitt
David Andrew Schwartz
David Michael Shaw
Russell Matthew Silber
Laura Isabelle Smith
Paris Spanolios
Martin Bernard Stemmler
Olivia Wai-Wen Suan
Cristian Roberto Tampe
Drew Avedis Torigian
Jennifer Ejen Tseng
Peter J. Uddo
Jennifer Beth Unger
Ravi Kumar Veeraswamy
Karen Ann Wendel
Laurell Lynda Wiersma
Demark Lee Winget
Thomas Hyunsop Woo
Judith Wood
Arthur Chiakaj Young

## *Baccalaureate Candidates in the G.W.C. Whiting School of Engineering*

*Graduating with General Honors*

Garrick Ahn
Subrat Biswal
Robin Valerie Blasberg
Hal Bowman
Floyd Andrew Bullard
Alberto Miguel Cairo
Dennis Hawkon Chang
Daryl Ming Chen
Stephen Chong
David Yongsik Chung
Debra Lee Cook
Richard Bradley Dause
Edward Pettet Davis
Sean Michael DiGiovanna
Noah Gabriel Estrin
Choon Kiat Goh
David Michael Hall
Jon Eric Hastings
Jeffrey Alan Hertz
Gary Evan Hsich
Toby Haruki Inoue
Kristie Lee Kantowski
Peter Junghan Kim
Sean S.H. Kim
Kevin John Ledger, Jr.
Jonathan Edward Lowthert
Geir Magnusson, Jr.
Danielle Joanne Marchione
Bennett Scott May
Susan Ellen Moyher
Joseph Daren Neff
Eve Parojcic
John Cheng Kang Pui
Cynthia Amy Quan
Aaron David Redish
Susan Lynn Roweton
Glenn H. Sabin
Manish Arvind Shah
Saurabh Narendra Shah
Robert Paul Silverman
Monique Louise Slater
Thomas Staubsach Sosnowski
Melody Ann Swartz

## *Baccalaureate Candidates in the School of Arts and Sciences*

### *Graduating with Departmental Honors*

Prakish K. Bhuvam
Matthew H. Bosworth
Stephen William Bretz
Stephen Douglas Brown
Joseph Patrick Bullington
Thomas Barnett Cleary
Charles Francis Connolly
Matthew Edward Cunningham
Michael Bradley Datto
Jennifer R.M. D'Urso
Lorin Michael Engquist
Lisa Feldman
Michelle Hit Fellner
Albert James Fessler
Jason Michael Fisher
Gregory William Fortsch
Mark Joseph Friedman
Kelly Ann Gebo
Robert Edward Glatz
William Mark Goodwin IV
Kathleen Edwards Green
Allen Tracy Grisson
Jeffrey Curtis Grossman
Erica Evette Gum
David Henry Hackos
Edith Emily Haritatos
Elin Ruth Hilderbrand
Todd Franklin Jackson
Edward Patrick Johnson
Kirsten Rae Johnson
Richard Chin-Hung Kuo
David Sunjin Lee
Olivia Lerner
Jin Sung Lim
Michael Loren Lisak
David Edward Liss
Mark Darius Robert Maneche
John Bennett Martinie
Catharine Elizabeth Mayor
Adam Arshag Mazmanian
Jason Ring McNamara
Shoshana Miriam Miller
Jonathan Eric Missner
Michael William Morris, Jr.
Noam Mordechai Menachem Neusner
Julia Catherine Pelagatti
Jennifer Rose Peverly
Dyanna Lea Phillips
Daniel J. Plattner
Richard Wingfield Quarles III
Aaron David Redish
Andrew Chamberlin Rieser
Jonathan Abram Roberts
Matthew Randall Rosengart
Nancy Elizabeth Schnall
David Andrew Schwartz
Russell Matthew Silber
Martin Bernard Stemmler
Drew Avedis Torigian
Jennifer Ejen Tseng
Jennifer Beth Unger
Daniel Cavin Weaver
Karen Ann Wendel
Demark Lee Winget
Albert Louis Zambone

## *Graduates from the Humanistic Studies Honors Program*

Paul Alexander Kramer
Aravinda Pillalamari

## *Baccalaureate Candidates in the G.W.C. Whiting School of Engineering*

### *Graduating with Departmental Honors*

Garrick Ahn
Subrat Biswal
Robin Valerie Blasberg
Hal Bowman
Floyd Andrew Bullard
Alberto Miguel Cairo
Daniel Mark Carroll
Dennis Hawkon Chang
James Chang
Daryl Ming Chen
Stephen Chong
David Yongsik Chung
Debra Lee Cook
Richard Bradley Dause
Edward Pettet Davis
Thomas Grant Edwards
Noah Gabriel Estrin
Choon Kiat Goh
David Michael Hall
Jon Eric Hastings
Jeffrey Alan Hertz
Gary Evan Hsieh
Toby Haruki Inoue
Kristie Lee Kantowski
Peter Junghan Kim
Sean S.H. Kim
Anne Korin
Kevin John Ledger, Jr.
Jonathan Edward Lowthert
Geir Magnusson, Jr.
Todd Anthony Mancini
Daniele Joanne Marchione
Bennett Scott May
Susan Ellen Moyher
Joseph Daren Neff
Eve Parojcic
John Cheng Kang Pui
Cynthia Amy Quan
Aaron David Redish
Susan Lynn Roweton
Glenn H. Sabin
Monique Louise Slater
Manish Arvind Shah
Thomas Staubsach Sosnowski
Melody Ann Swartz
Marc Masayuki Takeno

## *Baccalaureate Candidates in the School of Continuing Studies*

### *Graduating with Honors*

Mark Timothy Dole
Avi Erblich
Phyllis B. Jensen
Kathleen Alice Kovaly
Constance Vaughan Oliver
Andrea Michelle Passaro
Maria Antoinette Porretti
Kelly Lynn Raab
Kathleen P. Reasinger
Nancy Jane Rock
Sharon Marie Thompson
Frances Stephanie Vitrano
Saul J. E. Weinreb

## *Baccalaureate Candidates in the Part-Time Engineering Programs*

### *Graduating with Honors*

Elizabeth Ann Briscoe
Richard J. Dash
William F. Gangler
David Lee Jarvis
Daniel Cunnington Phillips III
Robert Stephen Rider
Hugh A. Thompson
Douglas Thomas Yoest

# *Candidates for Degrees*

*as of May 1, 1991*

*A number of students included in the lists which follow completed their degree requirements earlier in the academic year and could not be present today to receive their degree in person.*

## *Bachelors of Arts in The School of Arts and Sciences*

Andrew David Abrams, of New York, N.Y.
Max Ahn, of Gibsonia, Pa.
Keiko Akasofu, of Fairbanks, Alaska.
Natalie Jae Albert, of Warren, N.J.
Russell Tod Alexander, of Tenafly, N.J.
Kelly Jeanne Andrews, of Ambler, Pa.
Frantz Remi Atwell, of Jamaica, N.Y.
John Robert Austin, of Tewksbury, Mass.
William Converse Bacon, Jr., of Granville, Mass.
Ali Bahadori, of Margate, N.J.
Lesley Ellen Balch, of East Northport, N.Y.
Pamela Michelle Becker, of Latham, N.Y.
William Michael Berger, of Aberdeen, N.J.
Craig Jorge Bernardini, of Summit, N.J.
Clay Elliott Beveridge, of Fairfax, Va.
Molina Bhatnagar, of Gaithersburg, Md.
Parakash K. Bhuyan, of Old Tappan, N.J.
Gunther Paul Birznieks, of Bethesda, Md.
Jennifer Anne Blank, of Broomall, Pa.
Stephen Eliot Blank, of Rancho Santa Fe, Calif.
Meredith Amanda Blitz, of Westbury, N.Y.
Jonathan Andrew Blum, of Cherry Hill, N.J.
Ciaran Robin Blumenfeld, of Metuchen, N.J.
Glen H. Blustein, of Middleton, N.Y.
Jeremy Morris Blynn, of North Miami, Fla.
Wilhelm Christopher Bohn, of Oslo, Norway.
Caroline Bonte, of New York, N.Y.
Matthew H. Bosworth, of Stillwater, Okla.
Lana Boter, of Forest Hills, N.Y.
David Thomas Bowyer, of Montville, N.J.
David Harrison Boxenbaum, of Larchmont, N.Y.
Terri Ann Bradley, of Eldersburg, Md.
Alisa Brandes, of Cumberland, Md.
Stephen William Bretz, of Kettering, Ohio
Melissa Elaine Brice, of Hartsdale, N.Y.
Vincent Paul Briscuso, of Commack, N.Y.
Helen Anna Broder, of Shorthills, N.J.
Kenneth Ross Brodkowitz, of Bronx, N.Y.
Richard John Bronshvag, of Kentfield, Calif.
Geoffrey Fiske Brown, of Arlington, Va.
Stephen Douglas Brown, of Rockville, Md.
Ellen Patricia Buckley, of Sea Girt, N.J.
Joseph Patrick Buffington, of Parkersburg, W.Va.
Jacquelyn R. Burton, of Baltimore, Md.
Melissa Beth Cantwell, of Riverhead, N.Y.
Nicole Monica Carr, of Edgewood, Md.
Rex T. Chang, of Honolulu, Hawaii.
Elizabeth Alison Chapman, of Brookline, Mass.
Melanie Ruth Chellman, North Huntingdon, Pa.
Kathryn Belle Chen, of Endicott, N.Y.
PhoChan Chen, of New City, N.Y.
Sharon Shi-an Cheung, of Vestavia Hills, Ala.
Abhinav Chhabra, of Alexandria, Va.
Michael Chider, of Brunswick, Maine.
Andy J. Chien, of Bellevue, Wash.
Allyson Childs, of Dallas, Texas.
Steve Yoon-Ho Cho, of Bayside, N.Y.
Theresa Lynn Cho, of Baldwin Park, Calif.
Eugene Anthony Choe, of Newark, N.Y.
Dick Choi, of Iselin, N.J.
Stephen S. Choi, of Pittsburgh, Pa.
Wonjae Choi, of Mableton, Ga.
Jennifer Jihyun Chun, of Budd Lake, N.J.
Walter Jhong-Wha Chun, of Fredericksburg, Va.
Sung Ho Chung, of St. Louis, Mo.
Adam Christopher Clark, of Del Mar, Calif.
Jonathan Allan Clark, of Sanford, Maine.
Thomas Barnett Cleary, of New Orleans, La.
Norvin Aaron Clontz II, of Tryon, N.C.
John Boyd Coates IV, of Montpelier, Vt.
Lauren Stephanie Cobbs, of Philadelphia, Pa.
Beth Ann Coglianese, of Matteson, Ill.
Alice Elizabeth Cohen, of St. Louis, Mo.
Jonah H. Cohen, of Bloomfield, Conn.
Charles Francis Connolly, of Newington, Conn.
Frederick Michael Conroy, of Pittsburgh, Pa.
Brian Vincent Cooke, of Miller Place, N.Y.
Michael Alexander Cormack, of Littleton, Colo.
Matthew Edward Cunningham, of West Allenhurst, N.J.
John J. Curtin, of Smithtown, N.Y.
Elisabeth Morrison Dahl, of Baltimore, Md.
Glynis Claudia Dales, of Baltimore, Md.
Michael Bradley Datto, of Cherry Hill, N.J.
Gary Brian Davenport, of St. Augustine, Fla.
Karen Lynn Davis, of Chaptico, Md.
Samuel Kang-Nien Dawn, of Conshocken, Pa.
Kerry Elizabeth DeBay, of West Palm Beach, Fla.
Maureen Catherine Deger, of Bellingham, W.Va.
Paul H. DelGrosso, of Scituate, Mass.
Nellie Bernadette DeShetler, of Ellicott City, Md.
Anne Courtney DeVries, of Annapolis, Md.
Donald James Dewitt, of Houston, Texas.
Rory Cooke Dicker, of Bedford, N.Y.
James Roy Diener, of New York, N.Y.
Ned Norbert Dobner, of Greendale, Wis.
Timothy B. Donnelly, of Granitville, R.I.
Paul Jasan Dorio, of Highland Park, Ill.
Mark Christopher Dressel, of Baltimore, Md.
Thomas Dreyfus Dretler, of Wayland, Mass.
Jon Christopher Driscoll, of Groton, Mass.

Jennifer R.M. D'Urso, of Williamsport, Pa.
William Edward Dwan, Jr., of Yorktown Heights, N.Y.
Alvin Koji Egerer, of Thousand Oaks, Calif.
David John Eikenberg, of Bel Air, Md.
Susan Ellen Elitzky, of Villanova, Pa.
Susan Elizabeth Ellis, of Baltimore, Md.
Patricia Ann Endres, of Greenlawn, N.Y.
Andrew William Enfield, of Shippensburg, Pa.
Gretchen Engel, of New Canaan, Conn.
Christopher Anthony Engle, of Philadelphia, Pa.
Lorin Michael Engquist, of Brooklyn, N.Y.
David Charles Erfle, of West Chester, Pa.
Brooke Alison Ettle, of Covington, La.
Lisa Feldmann, of Derwood, Md.
Michelle Ilit Fellner, of Livingston, N.J.
Wendy Elaine Fenstamaker, of Williamsport, Pa.
David Marshall Ferris, of Cranston, R.I.
Albert James Fessler, of West Trenton, N.J.
Charles Morgan Fife, III, of Ferriday, La.
Tyrone David Fillyaw, of Central Islip, N.Y.
Sharon Rebecca Fine, of Chevy Chase, Md.
Jason Michael Fisher, of Millers, Md.
Robert K. Fitzgerald, of Northfield, Ill.
Kevin John Fitzpatrick, of Bronxville, N.Y.
Deirdre Kathleen Flaherty, of Massapequa, N.Y.
Lori Sue Fleming, of Bel Air, Md.
Corliss Elizabeth Flynn, of Kennett Square, Pa.
Gregory William Fortsch, of Bernardsville, N.J.
Solomon David Fox, of Princeton, N.J.
Tara Kathleen Frame, of Annapolis, Md.
Joanne Rochelle Frank, of Rydal, Pa.
Daniel Bruce Freeman, of Phoenixville, Pa.
Howard Steven Fried, of Forest Hills, N.Y.
Heather Michelle Friedman, of Baltimore, Md.
Mark Joseph Friedman, of Silver Spring, Md.
Dana Arlyne Fuqua, of Pittsburgh, Pa.
Coleen Ann Furey, of Bernardsville, N.J.
Greg Gagnon, of Springfield, Mass.
Francis Leonard Gangemi, of Pottsville, Pa.
Alyssa Ann Gardner, of Nutley, N.J.
Kelly Anne Gebo, of Scotia, N.Y.
Sara Geelan, of New York, N.Y.
Barry Geller, of Flushing, N.Y.
Steven J. Gerber, of New York, N.Y.
Frederick Robert Gerson, of Wayne, N.J.
Sudeshna Serena Ghosh, of Matawan, N.J.
John A. Gillespie, of Hammonton, N.J.
James Douglas Girardy, of Gladstone, N.J.
Robert Edward Glatz, of Plano, Texas.
William Mark Goodwin IV, of Miami, Fla.
Andrew Philip Gordon, of Short Hills, N.J.
Sean Patrick Graham, of Paxton, Mass.
Michael Paul Gray, of Lexington Park, Md.
Kathleen Edwards Green, of Spartanburg, S.C.
Kathleen Louise Green, of Joliet, Ill.
Larry F. Greenberg, of Dallas, Texas.
Ted Turner Greenberg, of Baltimore, Md.
Danielle Marie Grieco, of Manhasset, N.Y.
Allen Tracy Grisson, of Florence, Ala.
Robert William Grofe, of Philadelphia, Pa.
Jeffrey Curtis Grossman, of Evanston, Ill.
Christopher Jennings Gulledge, of Columbia, S.C.
Erica Evette Gunn, of Beavercreek, Ohio.
Jennifer Lee Haberlen, of Ligonier, Pa.
David Henry Hackos, of Littleton, Colo.
James Delos Hadley, of Huntington, N.Y.
Hyun-Dong Steven Hahn, of Des Plaines, Ill.
Robert Eugene Hahn III, of Hockessin, Del.
Douglas Alan Hall, of Old Lyme, Conn.
Fariba Makarehchian Hamedani, of Potomac, Md.
Julie Yeh-Chung Han, of Arlington, Texas.
Matthew Paul Hannon, of Spokane, Wash.
Yellott Fitzhugh Hardcastle, of Granby, Conn.
Edith Emily Haritatos, of El Cerrito, Calif.
James Richard Harkin, of Setauket, N.Y.
Michael Charles Harlow, of Aberdeen, S.D.
Erin Elizabeth Harshberger, of New York, N.Y.
David Jonathan Hart, of Hanover, Pa.
Kelly Anne Heh, of Camp Hill, Pa.
Ian Andrew Held, of Reisterstown, Md.
Douglas Ross Henshaw, of Waccabuc, N.Y.
Frederick Charles Herberich, of Akron, Ohio.
Bradley John Herman, of Cinnaminson, N.J.
Gabriel Jacob Hermann, of Forest Hills, N.Y.
Katharine Ruth Herring, of Princeton, N.J.
Seth Jonathan Hettena, of New York, N.Y.
Elin Ruth Hilderbrand, of Collegeville, Pa.
Mary Kristine Hillebrand, of Janesville, Wis.
David Jay Hirsch, of Potomac, Md.
Alice Jiayi Ho, of Columbia, Md.
Dennis T. Hoban, of Longwood, Fla.
Rodney Milton Holder, of Rockville, Md.
Adrienne Juliet Holmes, of Brooklyn, N.Y.
Sharyn Elise Horowitz, of Yardley, Pa.
Timothy Caron Horton, of Rye Brook, N.Y.
Tracy Jean Hourigan, of Elbridge, N.Y.
John Blanch Howell IV, of Mobile, Ala.
David Murray Howland, Jr., of Sherborn, Mass.
Everett Hsu, of Houston, Texas.
Li-Su Huang, of Angleton, Texas.
Li Wen Huang, of Sioux City, Iowa.
Steven Min Yang Huang, of Kaohsiung, Taiwan.
Scott Michael Huber, of Pittsburgh, Pa.
M. Kevin Hurley, of Tampa, Fla.
Cecily Meredith Hurst, of Chevy Chase, Md.
Paul Scott Intlekofer, of Severna Park, Md.
Nelson David Inz, of Kings Park, N.Y.
Todd Franklin Jackson, of Nashville, Tenn.
Mathew Katz Jacobs, of Quincy, Mass.
Shamina Shamshudin Jaffer, of Atlanta, Ga.
Andrew Alan Janis, of Mattituck, N.Y.
Catharine Elizabeth Johnson, of Fairfax, Va.
Christopher Todd Johnson, of Cascade, Colo.
Edward Patrick Johnson, of Murrysville, Pa.
Erik Michael Johnson, of Moline, Ill.
Kirsten Rae Johnson, of Englewood, Colo.
Kadijah Jones, of Salley, S.C.
Warren Chester Jones, of Randolph, N.J.
Kristen Amy Kaiser, of Rockport, Mass.
Jonathan Harold Kalla, of South St. Paul, Minn.
Paul Byungkuk Kang, of Hagerstown, Md.
Andrew Mark Kanter, of Scarsdale, N.Y.
Julia Valerie Kasperski, of Boca Raton, Fla.
Jason Harris Katz, of Dobbs Ferry, N.Y.
Marek Matys Katzman, of Woodland Hills, Calif.
Paula Annette Kea, of Chester, Pa.
Michael Crawford Keenan, of Baltimore, Md.
Erin Keown, of Eugene, Ore.
James Edwin Kiehl, of Lititz, Pa.
Sarah Sohee Kim, of Kansas City, Kan.
Stephen Eahl Kim, of Wichita, Kan.
Sunny Kim, of Fairfax, Va.
Suzy Kim, of Downington, Pa.
Charles Thomas Kinsky, of Worcester, Pa.

Gabrielle Kirsch, of Cedar Grove, N.J.
J. Edward Knights, of Wyoming, Ohio
Kathleen Susan Korbuly, of Minneapolis, Minn.
Michael Valery Koss, of Bridgewater, N.J.
Rupal Girish Kothari, of Pittsburgh, Pa.
Miki Koyama, of Tokyo, Japan
Paul Alexander Kramer, of Silver Spring, Md.
Jill Marie Kress, of Penfield, N.Y.
Kenneth Anthony Kroczenski, of Clifton, N.J.
Ramanathan Cidambi Kumar, of Ellicot City, Md.
Richard Chin-Hung Kuo, of Fremont, Calif.
Peter Oscar Kwiterovich III, of Baltimore, Md.
Raymond Tze Lam, of Jacksonville, Fla.
Mark D. Lamster, of New York, N.Y.
Anne Sharon Langley, of Colorado Springs, N.Y.
Ariann Lisa Langsam, of Melville, N.Y.
David Matthew Laser, of Furlong, Pa.
Charles Alfred Lawson III, of Linthicum, Md.
David Jung An Lee, of Los Angeles, Calif.
David Sunjin Lee, of Weston, Mass.
Janet So-Jung Lee, of McLean, Va.
John Jangwhan Lee, of Bethesda, Md.
Marc Steven Lee, of Northfield, Ill.
Carolyn Laura Leonard, of Tiverton, R.I.
Olivia Lerner, of Evanston, Ill.
Rachel Deborah Lewis, of Columbia, Md.
Vicki Lynn Lewis, of Trumbull, Conn.
Jonathan Philip Liba, of Westport, Conn.
Brian Douglas Liddicoat, of Watsonville, Calif.
Jin Sung Lim, of Annandale, Va.
Stephen Lih-Min Lin, of Libertyville, Ill.
Matthew Wendell Lindsay, of Vienna, Va.
Joe-Mark Lippert, of Cape Town, South Africa.
Michael Loren Lisak, of Bloomfield Hills, Mich.
David Edward Liss, of Ardmore, Pa.
Bernard Liu, of Peace Dale, R.I.
Susan Elise Llewellyn, of Fort Smith, Ark.
Michele Saint Fran Lo, of East Brunswick, N.J.
Cathy Ann Lomelino, of Riverton, Ill.
Kek Khee Loo, of Singapore.
Sherri Lenette Lovitt, of North Babylon, N.Y.
Philip Lu, of Englewood Cliffs, N.J.
Jennifer Ann Luzietti, of Shelton, Conn.
Sandra Jane Macan, of Strafford, Pa.
Mary Jennifer MacKay, of New York, N.Y.
Abdollah Philip Maghsoudloo, of New York, N.Y.
Mark Darius Robert Maneche, of Nashua, N.H.
Geoffrey Hunt Manning, of Denver, Colo.
Kelly A. Mansfield, of Morristown, N.J.
Lauren Jeanette Marcus, of Newton, Mass.
Lisa Hamilton Marino, of Plainsboro, N.J.
Scott Christopher Marr, of Yorktown Heights, N.Y.
Andrea Lynne Marsh, of Charlotte, N.C.
Todd Adam Marshall, of Los Angeles, Calif.
John Bennett Martinie, of Exton, Pa.
Catharine Elizabeth Mayor, of Hanover, Pa.
Annabelle Diana Mayr, of Vineland, N.J.
Adam Arshag Mazmanian, of Brookline, Mass.
Kathleen Blake McCabe, of Bedford, N.Y.
Robert Neil McLay, of Clearwater, Fla.
Jason Ring McNamara, of Framingham, Mass.
Michael J. McNamara, of Andover, Mass.
James Christopher McNealey, of Severna Park, Md.
Arturo Norberto Medina, of Pawtucket, R.I.
Mark Richard Melia, of Arlington, Va.
Eric Barrie Meltzer, of Bronx, N.Y.
Matthew Steven Meyers, of Pittsburgh, Pa.
Laura Ann Middleton, Garden City, N.Y.
Jacob Paul Miller, of Upperco, Md.
Shoshana Miriam Miller, of Baltimore, Md.
S. Townsend Miller-Jones, of London, England.
Stephen Scott Milt, of Plymouth, Mass.
Jocelyn Mini, of Newton, Mass.
Jonathan Eric Missner, of Highland Park, Ill.
Gerald Christopher Moczynski, of Phoenix, Ariz.
Erik Kristoffer Mont, of Flemington, N.J.
Jennifer Ann Morgan, of Avon Lake, Ohio.
Michael William Morris, Jr., of Andover, Mass.
Michael Kane Morrissey, of Massapequa, N.Y.
Cathleen Diann Moskal, of Avon, Conn.
Suzanne Marie Muller, of Princeton, N.J.
Jocelyn Annette Myers, of Queens Village, N.Y.
Tamra Lynn Myers, of Berwyn Heights, Md.
Asma Jasmine Naeem, of Towson, Md.
Devarshi Nath, of Simsbury, Conn.
Dawn Marie Nee, of Upper Darby, Pa.
Robert H. Nelson, of Smyrna, Del.
Michael Joshua Neufeld, of New York, N.Y.
Noam Mordechai Menachem Neusner, of St. Petersburg, Fla.
Jane Nguyen, of Rockville, Md.
Astrid Nielsen, of Columbia, Md.
Richard Chapman Nurse, of New York, N.Y.
Brendan Patrick O'Brien, of Wodburn, Mass.
Matthew James O'Brien, of Lynn, Mass.
Charalambos C. Opsimos, of Athens, Greece.
Shane S. Pak, of Malvern, Pa.
Matthew Raymond Panetta, of Holtsville, N.Y.
Tamara Susan Paragino, of Effort, Pa.
Anthony J. Park, of Roanoke, Va.
John Shik Park, of Livingston, N.J.
Amy Lynn Parke-Cantilina, of Apollo, Pa.
Andrew Arthur Parsley, of Colorado Springs, Colo.
Ketul Jagdish Patel, of Johnstown, Pa.
Anissa Inez Selene Payne, of Newport News, Va.
Julia Catherine Pelagatti, of Gladwyne, Pa.
Jeffrey Mark Perlstein, of Livingston, N.J.
Jennifer Rose Peverly, of Timonium, Md.
Dana Christine Phelan, of Ardsley, N.Y.
Sneha Anne Philip, of Hopewell Junction, N.Y.
Dyanna Lea Phillips, of Columbia, S.C.
Andrzej Wiktor Zygmunt Piasecki, of Silver Spring, Md.
Alavinda Pillalamari, of Bel Air, Md.
Michele Daphne Pineda, of Fort Washington, Md.
Patricia Ann Pippen, of Port Orange, Fla.
Luciene Marie Pisa, of East Hampton, Conn.
Gregory Lorne Platt, of Rye, N.Y.
Daniel J. Plattner, of Bethesda, Md.
Jason Arthur Pointe, of East Providence, R.I.
Naomi R. Poling, of Lancaster, Pa.
Jerome Vincent Ponder, of Wichita, Kan.
Stuart David Poppel, of Philadelphia, Pa.
Robert Francis Porcarelli, of Sidney, N.Y.
Charles Alexander Portes, of Lincoln, Neb.
Matthew Andrew Prior, of Rising Sun, Md.
Robert Seth Promisel, of Marblehead, Mass.
Scott Christopher Pugh, of Chevy Chase, Md.
Joshua David Putterman, of Hamden, Conn.
David Pyles, of Orono, Maine.
Ayesha Qayyum, of Baltimore, Md.
Richard Wingfield Quarles III, of Parkersburg, W.Va.
Susan Gay Queen, of Fayetteville, N.C.
Firas Raad, of Amman, Jordan.
Sara Kimberly Rabinowitz, of Waterbury, Conn.

Thomas John Raley, Jr., of Baltimore, Md.
Geetha Shiva Rao, of Murphy, N.C.
Christopher Drue Reichart, of Orangeville, Pa.
Reginald Reid, of Silver Spring, Md.
Adrienne Rencic, of Berlin, N.J.
Thomas Robert Christian Reutter III, of Woodbury, N.J.
Ji-Yeun Rha, of New Canaan, Conn.
Edward H. Rhew, of West Orange, N.J.
Andrew Chamberlin Rieser, of Bedford, N.Y.
Ellen Moore Rigsby, of Philadelphia, Pa.
Julia G. Ro, of Frederick, Md.
Jonathan Abram Roberts, of New York, N.Y.
Suzanne Roberts, of Somerset, N.J.
Paul Samuel Robinson, Jr., of Baltimore, Md.
Peter Tomlinson Roe, Jr., of Fayetteville, N.Y.
Juliane Rolapp, of Darnestown, Md.
Anthony John Roman, of Joppatowne, Md.
Bess Allison Rose, of Baltimore, Md.
Matthew Randall Rosengart, of Savannah, Ga.
Eric Charles Rottenberg, of Port Washington, N.Y.
Erica Marie Roulier, of Cincinnati, Ohio.
Mark Francis Rubin, of Brooklyn, N.Y.
David Howard Russel, of Baltimore, Md.
Francesco Aldo Saccone, of Baltimore, Md.
Atul Kumar Sachdev, of Plano, Texas
Charles Adlai Sadoff, of Washington, D.C.
Amit Pratim Saha, of Pittsford, N.Y.
Yuri Ann Saito, of Allison Park, Pa.
Allene Faye Salcedo, of Tamuning, Guam.
Alison Michele Samitt, of Parsippany, N.J.
Sanjay Anantha Samy, of Miami, Fla.
Michael Sandler, of East Brunswick, N.J.
Nalinee Sangrujee, of Pittsburgh, Pa.
Ellen Mindy Schatz, of Carmel, Calif.
Ingeborg Yvonne Schlate, of Closter, N.J.
Hugh Russell Schmidt, of Coconut Grove, Fla.
Nancy Elizabeth Schnall, of East Brunswick, N.J.
Mary Robertson Schoen, of Spartanburg, S.C.
David Andrew Schwartz, of Silver Spring, Md.
Jonathon H. Schwartz, of Huntingdin Valley, Pa.
Vernon Franklin Sechrist II, of Birmingham, Ala.
Vikram Kamil Shah, of Baltimore, Md.
Kevin Edward Shake, of Oak Park, Ill.
David Michael Shaw, of Tampa, Fla.
John Marr Sheehan, of Towson, Md.
Brian Shih, of The Bergen Record, N.J.
Russell Matthew Silber, of Manalapan, N.J.
Alexandre F. Simkin, of London, England.
Elizabeth Amy Singer, of Chapel Hill, N.C.
Daniel E. Smith, of Narberth, Pa.
Laura Isabelle Smith, of Havertown, Pa.
Stephanie Anne Sneddon, of Santa Barbara, Calif.
Louis Leonard Sobol, of Pittsburgh, Pa.
Andrew Joseph Sohn, of Sudbury, Mass.
Tarik Bob Soliman, of Hackensack, N.J.
Jennifer Jo Sosnowski, of Wayland, Mass.
Paris Spanolios, of Queens, N.Y.
Tonya Ann Spencer, of Overland Park, Kan.
Sherry Tonya Stallings, of Scotch Plains, N.J.
Heather Anne Stark, of Baltimore, Md.
Melinda Beth Stege, of Shaker Heights, Ohio.
Russell Lawrence Stein, of Sharon, Mass.
Martin Bernard Stemmler, of Potomac, Md.
Brooke Griffith Stevens, of Bethesda, Md.
Charles Eaton Stewart, of Dallas, Texas.
Adrienne Yvette Stith, of West Point, N.Y.
Dawn Elaine Stoner, of Glastonbury, Conn.
Susan Ann Stoner, of Altoona, Pa.
Darryl Evan Strutton, of Wading River, N.Y.
Wilbur Chun'Te Su, of Towson, Md.
Olivia Wai-Wen Suan, of Tustin, Calif.
Gregory D. Suh, of Wilmington, Del.
Marina Svetlov, of North Brunswick, N.J.
Cristian Roberto Tampe, of Satiago, Chile
Dafna Rachel Tapiero, of Princeton, N.J.
Anthony C. Tassi, of Baltimore, Md.
Patricia Laurel Tassler, of New Hyde Park, N.Y.
Tabitha Eastburn Teller, of Brattleboro, Vt.
Vibha Thakral, of Vienna, Va.
Joel Phillip Christian Thames, of St. Louis, Mo.
Steven Mark Thompson, of Alameda, Calif.
Seth Brad Tierney, of Wantagh, N.Y.
Kara Lynn Tipton, of Abingdon, Md.
Michael Steven Topiel, of Fort Lee, N.J.
Drew Avedis Torigian, of Paramus, N.J.
Benjamin David Townsend, of Canaan, N.H.
Timothy David Train, of Newtown Square, Pa.
Jennifer Ejen Tseng, of Shreveport, La.
Michelle Asantewa Tyson, of Pasedena, Calif.
Peter J. Uddo, of Byram, N.J.
Jennifer Beth Unger, of Evergreen, Colo.
Theodore Waldemar Uroskie, Jr., of Clarks Summit, Pa.
Alexander Thomas Varon, of La Jolla, Calif.
Sangita Vatave, of La Habra, Calif.
Ravi Kumar Veeraswamy, of Columbia, S. C.
Rolando Rex Velasquez, of Buffalo, N.Y.
Sheldon Lynn Vickers, of Garland, Texas.
Brian Lawrence Voelker, of Baltimore, Md.
Barbara Lynne Walker, of Princeton, N.J.
Victoria Warivonchik, of North Arlington, N.J.
Eric Jonathan Wasserman, of Riverdale, N.Y.
Daniel Cavin Weaver, of Knoxville, Tenn.
Heather Dawn Webb, of Daretown, N.J.
Jessica Amy Weiss, of Ardsley, N.Y.
Michael Weissman, of Essexville, Mich.
Karen Ann Wendel, of Aurora, Colo.
James John Wesolowski, of Cheektowaga, N.Y.
Laurell Lynda Wiersma, of Mt. Vernon, N.Y.
Bruce E. Wietham, of Kansas City, Mo.
Gabrielle Claretha Williams, of Detroit, Mich.
Philip William Wills, of Livingston, N.J.
Demark Lee Winget, of Oklahoma City, Okla.
Jeffrey Howard Withey, of Jackson, Mich.
Michele Lynn Wolf, of Cincinnati, Ohio.
Ken Yi Wong, of Englewood Cliffs, N.J.
Philip Wong, of Bristol, Conn.
Thomas Hyunsop Woo, of Pepper Pike, Ohio.
Judith Wood, of North Versailles, Pa.
Michela Lee Worthington, of McLean, Va.
Dion Vallen Wright, of Baltimore, Md.
Jay Kurtis Wright, of Littleton, Colo.
Les Sean Wright, of Coram, N.Y.
Jean Wu, of Catonsville, Md.
Erika Kristina Wuorinen, of North Reading, Mass.
Yoram Steven Wurmser, of Towson, Md.
Takashi Yokoyama, of Palisades Park, N.J.
Arthur Rho Yoon, of Buffalo, N.Y.
Andrea Sharon Young, of Bronx, N.Y.
Arthur Chia-kai Young, of Miami, Fla.
William Morgan Zahn, of East Brunswick, N.J.
Albert Louis Zambone, of Greenwich, N.J.
Jonathan Lohr Zipp, of Lutherville, Md.
Christine Noelle Zubrod, of Camp Hill, Pa.

## *Bachelors of Science in Biomedical Engineering in The G.W.C. Whiting School of Engineering*

Ricardo Agustin Bello, of Miami, Fla.
Vivek Chaturvedi, of Wassenaar, The Netherlands.
Dennis Hawkon Chang, of Calabasas, Calif.
James Chang, of Longmeadow, Mass.
Daryl Ming Chen, of Kings Mountain, N.C.
David Yongsik Chung, of Joppa, Md.
Maha Ghazi Damaj, of Freidis, Lebanon.
Richard Bradley Dause, of Bel Air, Md.
Joshua Adam Donis, of Pleasantville, N.Y.
Marc Mesrop Egazarian, of Blauvelt, N.Y.
Jacob Friedman, of Great Neck, N.Y.
Patrick Henry Gorman III, of Little Silver, N.J.
David Michael Hall, of Morgantown, W.Va.
Stephanie April Hayes, of Dothan, Ala.
Jeffrey Alan Hertz, of Miami, Fla.
Mary Katherine Horner, of Baltimore, Md.
Toby Haruki Inoue, of Matteson, Ill.
Weiyuan John Edward Kao, of Taipei, Taiwan.
Peter Junghan Kim, of Los Angeles, Calif.
Eugene Lin, of Elmhurst, N.Y.
Stephen Thomas Lobo, of Albany, N.Y.
Vedang Arun Londhe, of Palo Alto, Calif.
Danielle Joanne Marchione, of West Chester, Pa.
Sanchayeeta Mitra, of Orange, Conn.
Susan Ellen Moyher, of Shelton, Conn.
Joseph Daren Neff, of Cherry Hill, N.J.
Emre Husnu Noteroglu, of West Nyack, N.Y.
Gaurang C. Patel, of Baltimore, Md.
Jayson Everett Rome, of Bloomingdale, N.J.
Susan Lynn Roweton, of Chadron, Neb.
John David Scala, of Augusta, Ga.
Manish Arvind Shah, of Gaithersburg, Md.
Vidal Ty Sheen, of Lexington, Ky.
Daichi Shimbo, of Bethesda, Md.
Marc Masayuki Takeno, of Kaneohe, Hawaii.
Kamaryn Tracey Tanner, of San Clemente, Calif.
Helen Marie Wilfehrt, of Westfield, N.J.
Valerie Dawn Wilson, of Madison, Conn.

## *Bachelors of Science in Chemical Engineering in The G.W.C. Whiting School of Engineering*

Laura Elizabeth Balog, of Jarrettsville, Md.
Nels Adam Dumin, of Clemson, S.C.
Lan-Sin Hsieh, of Columbia, S.C.
Miki Itoh, of Scarsdale, N.Y. (Diploma dated May 24, 1990)
David Lyle Kiskis, of Baltimore, Md.
Kevin John Ledger, Jr., of Norristown, Pa.
Kimberly Kathleen Roberts, of Plymouth, N.H.
Douglas Stephen Schmidt, of New Fairfield, Conn.
Melody Ann Swartz, of Glen Ellyn, Ill.
Shari Heather Zuskin, of Commack, N.Y.

## *Bachelors of Science in Civil Engineering in The G.W.C. Whiting School of Engineering*

Christopher J. Halpin, of Valley Stream, N.Y.
Bennett Scott May, of Boone, N.C.
Donald Jesse Robbins, of Bloomsburg, Pa.
Bonnie Joy Smelkinson, of Baltimore, Md.
Adrian Carlton Velthuis, of Lanham, Md.

## *Bachelors of Science in Computer Science in The G.W.C. Whiting School of Engineering*

Gunther William Anderson, of Fairfax, Va.
Anne Korin, of Weston, Conn.
Todd Anthony Mancini, of Lynnfield, Mass.
Joseph T. McKee, of Stamford, Conn.
Julio Cesar Navas, of Ocean, N.J.
Aaron David Redish, of Bethesda, Md.
David Levendel Sifry, of Oceanside, N.Y.
Michael John Silano, of Scarsdale, N.Y.
Randy M. Staudinger, of Lloyd Harbor, N.Y.
John F. Tigue, of Larchmont, N.Y.

## *Bachelors of Science in Electrical Engineering in The G.W.C. Whiting School of Engineering*

Garrick Ahn, of East Brunswick, N.J.
Steven Matthew Baker, of Pasadena, Md.
Subrat Biswal, of Randallstown, Md.
Robin Valerie Blasberg, of Rockville, Md.
Robert Bruce Briggs, of Fargo, N.D.
Alberto Miguel Cairo, of Vienna, Austria.
Daniel Mark Carroll, of Clinton, Md.
Michael John Carter, of Milford, N.H.
Anthony Phillip Caruso, of Ft. Lauderdale, Fla.
Christina Lok-sze Chan, of Hong Kong.
Christian James Cooke, of Columbia, Md.
Timothy Fenton Edalatpour, Jr., of Erdanheim, Pa.
Thomas Grant Edwards, of Silver Spring, Md.
Jonathan Todd Entner, of Malvern, Pa.
Christopher James Gadbois, of Bethlehem, Pa.
Philip Alan Garrant, of Hanover, Md.
Steven Timothy Giangrandi, of Ellicott City, Md.
Choon Kiat Goh, of Kuala Lumpur, Malaysia.
Paul Eric John Goida, of Lansford, Pa.
Steven Edward Grantham, of Westminster, Md.
Leonard Tito Guzman, of Parsippany, N.J.
Jon Eric Hastings, of Perry Hall, Md.
Norazman M. Isa, of Pahang, Malaysia.
Thom G. Johnson, of Auburn, Wash.
Mary Fay-May Kao, of Taipei, Taiwan.
Edward Francis Kerekes, of South Euclid, Ohio.
Sean S.H. Kim, of Tulsa, Okla.
Martin Ying Wai Lai, of Hong Kong.
Benjamin Theodore Lonske, of Sudbury, Mass.
Jonathan Edward Lowthert, of Greenwich, Conn.
Geir Magnusson, Jr., of Mechanicsburg, Pa.
Brian Maso, of Springfield, Va.
Roslan Md-zaki, of Penang, Malaysia.
Omar Aziz Mian, of Wilmington, Del.
Monica Mary Mingioni, of Ferndale, Md.
Mohd Rosdi MohamedZain, of Kelantan, Malaysia.
John Cheng Kang Pui, of Calgary, Canada.
Saurabh Narendra Shah, of Paramus, N.J.
Jennifer Deborah Sharp, of Darien, Conn.
Thomas Staubsach Sosnowski, of Wayland, Mass.
Juan Turk Suros, of San Diego, Calif.
Ralph J. Tufano, of Selden, N.Y.
Felix Kenburn Watson, of St. Croix, U.S. Virgin Islands.

## *Bachelors of Science in Engineering Mechanics in The G.W.C. Whiting School of Engineering*

Richard McDonald Anderson, of Silver Spring, Md.
Pamela Sue Maxwell, of Northbrook, Ill.
Daniel Ainslee Taylor, of Portland, Maine.

## *Bachelors of Science in Materials Science and Engineering in The G.W.C. Whiting School of Engineering*

Adam Frederich Benedict Bertuch, of Higganum, Conn.
Esther Sun-A Chang, of Bensalem, Pa.
Laura Elliott, of Woodbury, N.J.
Sehra Eusufzai, of Dewitt, N.Y.
Chetan Upendrakumar Kharod, of San Pedro, Calif.
Peter Chin-Chuan Liu, of Fresh Meadows, N.Y.
Yana Milligan Maria Nicks, of Holliston, Mass.
Claire Allison Rutiser, of Brandywine, Md.
Monique Louise Slater, of Atlanta, Ga.

## *Bachelors of Science in Mathematical Sciences in The G.W.C. Whiting School of Engineering*

Floyd Andrew Bullard, of Wilson, N.C.
Kristin Elizabeth Cole, of Boothwyn, Pa.
Debra Lee Cook, of Baltimore, Md.
Michael Patrick Dante, of Churchville, Md.
Sharon Samantha Darone, of Fairfax, Va.
Erika L. Francis, of Chatham, N.J.
Kristie Lee Kantowski, of Ellicott City, Md.
Eve Parojcic, of Mount Prospect, Ill.
Glenn H. Sabin, of Bound Brook, N.J.
Robert Paul Silverman, of Baltimore, Md.
Catherine Eleonor Troelstra, of Oklahoma City, Okla.

## *Bachelors of Science in Mechanical Engineering in The G.W.C. Whiting School of Engineering*

Mohd Fauzi Abd-Aziz, of Terengganu, Malaysia.
Stephen Chong, of Vernon N.J.
Michael Garrett Daniels, of Newton, N.J.
Edward Pettet Davis, of Reston, Va.
Douglas Wayne Krebs, of Towson, Md.
Alexander V. Motamed, of Great Neck, N.Y.
Steven Mark Muchow, of Severna Park, Md.
John Matthew Weber, of Baltimore, Md.

## *Bachelors of Arts in The G.W.C. Whiting School of Engineering*

Hal Bowman, of Jacobus, Pa.
Thomas Anthony Chiari, of South Burlington, Vt.
Ajay Choudhri, of Chester, N.J.
Sean Michael DiGiovanna, of Princeton Junction, N.J.
Noah Gabriel Estrin, of Owings Mills, Md.
Leonard Elliot Fensterheim, of Riverdale, N.Y.
Erika Lynne Francis, of Chatham, N.J.
Gary Evan Hsich, of Mayberry, N.C.
Eugene Kim, of Seoul, Korea.
Marc Alan Lebeau, of Jenkintown, Pa.
John Brecht McGready, of Ambler, Pa.
Divyang Dolat Mehta, of Damestown, Md.
John Arthur Naused, of Bel Air, Md.
Nana Nicole Nkrumah, of Accra, Ghana.
Wilson H. Ouyang, of Salem, Ore.
Cynthia Amy Quan, of Edison, N.J.
George Sykes, of Darien, Conn.
David Brian Weiss, of Silver Spring, Md.
Daniel Ong Wu, of Palos Verdes, Calif.
Mohammed Firdos Ziauddin, of Bolingbrook, Ill.

## *Bachelors of Civil Engineering in The G.W.C. Whiting School of Engineering*

Leonard Harry Addison, of Baltimore, Md.
Joseph Anthony Baranoski, of Towson, Md.
Kenneth Timothy Belt, of Baltimore, Md.
Alan Douglas Chiarito, of Baltimore, Md.
Sarah Elizabeth Pilcher, of Bel Air Md.

## *Bachelors of Electrical Engineering in The G.W.C. Whiting School of Engineering*

Nicholas Robert Bachur, Jr., of Towson, Md.
Goerge Henry Backert, Jr., of Baltimore, Md.
Dennis Vaughn Blevins, of Baltimore, Md.
Christopher Alan Brown, of Catonsville, Md.
Richard J. Dash, of Hampstead, Md.
Anna Maria Patricia de Freitas, of Laurel, Md.
John Edward Downs, of Baltimore, Md.
Edward Joseph Emery, III, of Baltimore, Md.
John Spencer Fitzhugh, Jr., of Glen Burnie, Md.
William F. Gangler, of Baltimore, Md.
Joseph Philip Garber, of Glenwood, Md.
Barry B. Geiger, of Tamaqua, Pa.
Glen Raymond Harnish, of Frederick, Md.
David Lee Jarvis, of Pasadena, Md.
David Edward Larkin, of Pasadena, Md.
Carl August Letwinsky, Jr., of Pasadena, Md.
David Maurice Nelson, of Baltimore, Md.
Lloyd John Olson, of Severna Park, Md.
Timothy Lewis Salerno, of Damascus, Md.
Michael Robert Schmidt, of Dundalk, Md.
Hugh A. Thompson, of Baltimore, Md.
William Jay Ulrich III, of Baltimore, Md.
Mark David Wecht, of Baltimore, Md.
Ronald Jacobs Welsh, of York, Pa.
Sean Lamont Westley, of Baltimore, Md.
Michael Milton Williams, Jr., of Perryhall, Md.
Dean A. Wilson, of Baltimore, Md.
Douglas Thomas Yoest, of Crofton, Md.

## *Bachelors in Mechanical Engineering in The G.W.C. Whiting School of Engineering*

John William Appling, of Hampstead, Md.; A.A. Catonsville Community College, 1979.
Mark Hugh Baker, of Baltimore, Md.
Elizabeth Ann Briscoe, of Baltimore, Md.; B.S. Towson State University, 1979.
Alice Fussell Lium, of Baltimore, Md.; B.A. University of Montana, 1966; M.A. University of Minnesota, 1977.
Curt Edward Metzbower, of Fallston, Md.
Thomas Kevin Phelan, of Baltimore, Md.; A.A. Essex Community College, 1983.
Daniel Cunnington Phillips III, of Gambrills, Md.
Ann Marie Rickle, of Catonsville, Md.
Robert Stephen Rider, of Annapolis, Md.

## *Performer's Certificates in The Peabody Conservatory of Music*

Brynn Albanese, of Los Angeles, Calif. Violin.
Christina Marie Chute, of Baltimore, Md. Violoncello.
Christopher Charles Claytor, of Indianapolis, Ind. Bassoon.
George H. Colligan IV, of Columbia, Md. Trumpet.
Charlene Marie Critcher, of Baltimore, Md. Clarinet.
Benita Hope Gold, of Rockville, Md. Saxophone.
Philip Rainbow Hale, of Northampton, Mass. Violin.
Li Qing, of Beijing, Peoples Republic of China. Violin.
Alicia Celeste McMahan, of Arlington, Va. Oboe.
Heidi Anne Palalay, of Newark, Del. Oboe.
Timothy Reinhard Viets, of Millersville, Md. Clarinet.

## *Bachelors of Music in The Peabody Conservatory of Music*

Jeffery Stannard Beyers, of Baltimore, Md. Piano.
Deborah Anne Boldin, of Cudahy, Wis. Flute.
John Michael Bolen, of Glen Ridge, N.J. Saxophone and Recording Arts and Sciences.
Walter Frank Bostian, of Blackburg, Va. Trombone.
Juliette Rose Buchanan, of Dallas, Texas. Harp.
Katherine Calvey, of Fairview Park, Ohio. Flute.
Claudia SiFang Chen, of Denver, Colo. Piano.
Sun Myung Choi, of Annandale, Va. Piano.
George H. Colligan IV, of Columbia, Md. Music Education.
Charlene Marie Critcher, of Baltimore, Md. Music Education.
Donald Francis Dawson, of West Palm Beach, Fla. Guitar.
Joshua Nathan Fineberg, of Indianapolis, Ind. Composition.
Benita Hope Gold, of Rockville, Md. Music Education.
Matthew Albert Gould, of Baltimore, Md. Guitar.
Darren R. Guzzone, of Germantown, Md. Guitar.
Sharon Elizabeth Hack, of Salinas, Calif. Percussion.
Philip Rainbow Hale, of Northampton, Mass. Music Education.
Kelley Ruth Hijleh, of Baltimore, Md. Voice.
Kimberly Ann Jones, of Naperville, Ill. Flute.
Heidi J. Julien, of Jonesboro, Ark. Flute.
Seljuk Kardan, of Richmond, Va. Viola.
Sumi Kay, of Potomac, Md. Piano.
Nancy Akiko Kito, of Woodside, N.Y. Organ.
Cheryl D. Landry, of Port Angeles, Wash. Viola.
Nicole Elizabeth LePera, of Gorham, N.H. Recording Arts and Sciences.
Denis Patrick Malloy, of Ridley Park, Pa. Clarinet.
Alicia Celeste McMahan, of Arlington, Va. Music Education.
William J. McQuay Jr., of Baltimore, Md. Composition.
Lorraine M. Min, of Vancouver, British Columbia, Canada. Piano.
Mary Agnes Mitchell, of Burtonsville, Maryland. Voice.
Patricia Lee Myers, of Baltimore, Md. Organ.
Heidi Anne Palalay, of Newark, Del. Music Education.
Marc Alan Ramirez, of Arlington, Va. Violin.
Kuljit Rehncy, of Baltimore, Md. Percussion.
Predrag Rogic, of Belgrade, Yugoslavia. Guitar.
TingWen Shao, of Kaohsiung, Taiwan, Republic of China. Piano.
Jachi NgaLin Shiu, of Hong Kong. Violin.
Anthony Gwynn Simmons, of Edgewood, Md. Violin.
Jozef Surowiec, of Glen Burnie, Md. Voice.
Ivana Svarc, of Zagreb, Yugoslavia. Piano.
Janet Louise Taggart, of Vestal, N.Y. Violoncello.
Atau Tanaka, of Hamden, Conn. Recording Arts and Sciences.
Teo Tetel, of Edmonton, Alberta, Canada. Violin.
Rupert Anthony Thompson, of Annapolis, Md. Violoncello.
Kent Brian Trostel, of Sun City, Ariz. Oboe.
Gudula B. Urban, of Vienna, Austria. Violoncello.
Timothy Reinhard Viets, of Millersville, Md. Music Education.
Manahara Virasinha, of Lancaster, Pa. Piano.
Felix HengMao Wang, of Okemos, Mich. Violoncello.
Mark Lanz Weiser, of Springtown, Pa. Piano.
SzeLong Aaron Wong, of Fanling, Hong Kong. Violoncello.
Melinda Zagarino, of Crofton, Md. Voice.
Paul Jan Zdunek, of Baltimore, Md. Composition.

## *Bachelors of Science*
## *School of Nursing*

Rosanna Lynn Bacon, of Kent, Washington.
Barbara Anne Biedrzycki, of Glen Burnie, Maryland.
Patricia M. Bladek, of Middletown, Connecticut.
Suzie Ann Blevins, of Havre de Grace, Maryland.
Thola Alinda Bennecoff, of Egg Harbor, New Jersey.
Nancy Elizabeth Bolan, of Mt. Vernon, New York.
Cathleen Elizabeth Brant, of Columbia, Maryland.
Kimberly Ann Brookes, of Virginia Beach, Virginia.
Barbara Joann Bryant-Schmitt, of Ellicott City, Maryland.
Faye Marie Burgin, of Baltimore, Maryland.
Michele Cellai, of Putnam Valley, New York.
Andrea Robin Frye, of Silver Spring, Maryland.
Holly Haddock Gasull, of Elliottsburg, Pennsylvania.
Ruth Henry Geissler, of Baltimore, Maryland.
Susanna Elizabeth Hathaway, of Encino, California.
Alva Veronica Hunt, of Baltimore, Maryland.
Pamela Nanci Klein, of Columbia, Maryland.
Donald Thomas Lato, of Milton, Massachusetts.
Patricia Ellen Ledden, of Stevensville, Maryland.
Mary Michele Lewis, of Adelphi, Maryland.
Elizabeth Anne Lund, of Reisterstown, Maryland.
Joanne Healy McAuliffe, of Westminster, Maryland.
Margaret Mary McLaughlin, of Birmingham, Michigan.
Agnes Mayer, of Annville, Pennsylvania.
Kim Elizabeth Mudd, of Baltimore, Maryland.
Barbara Christine Mueller, of Albuquerque, New Mexico.
Kelly Eileen O'Hagan, of Lake Worth, Florida.
Kim Stroud Perez, of Manchester, Maryland.
Edward Samuel Pujol, III, of Perry Hall, Maryland.
Joy Celeste Reineck, of Baltimore, Maryland.
Becky Lynn Ross, of El Paso, Texas.
Joy Nelson Saams, of Arnold, Maryland.
Julie L. Shamberger, of Westminster, Maryland.
Lisa Marie Shook, of Nicktown, Pennsylavania.
Any Lynn Snyder, of Dauphin, Pennsylvania.
Heather Marie Spooner, of Shelby, North Carolina.
Ellen Coutts Waff, of Savage, Maryland.
Paula Ann Winik, of Frederick, Maryland.
Carolyn Dawn Woodie, of Kingsville, Maryland.

## *Associates of Science*
## *in The School of Continuing Studies*

Ray Gordon Bagwell, of Timonimum, Md.
N. Emily Chin, of Bethpage, N.Y.
Glenn Lawrence Cooper, of Pasadena, Md.
John A. Crow, of Columbia, Md.
Ambrose Edward Gmeiner II, of Westminster, Md.
Jeffrey W. Goldsmith, of Baltimore, Md.
Elizabeth Sherrard Hamberry, of Baltimore, Md.
Wendy Lee Jackson, of Baltimore, Md.
Edward Thomas Johnson, of Baltimore, Md.
Brian Theodore Jones, of Cockeysville, Md.
William Michael Kirlin III, of Baltimore, Md.
Wayne Alexander Kookogey, of Towson, Md.
Mark E. Nypaver, of Baltimore, Md.
Marcia Jean Riley, of Camillus, N.Y.
John W. Roeder, of Glen Burnie, Md.
Douglas Shuck, of Glen Burnie, Md.
Steven Michael Sullivan, of Bel Air, Md.
Harriett A. Telljohann, of Baltimore, Md.
Ralph Redman Warren, Jr., of Dundalk, Md.
James Wallis Wright, of Baltimore, Md.
Michael Alan Zeuch, of Baltimore, Md.

## *Bachelors of Liberal Arts*
## *in The School of Continuing Studies*

Kathryn Evelyn Clay, of Baltimore, Md.
Mark Timothy Dole, of Sao Paulo, Brazil.
Kevin J. Gardner, of Elma, Iowa.
Martha Sue Hanson, of Edgewood, Md.
Avi Dov Hyman, of Augusta, Ga.
Saul J.E. Weinreb, of Baltimore, Md.

## *Bachelors of Science*
## *in The School of Continuing Studies*

George C. Barth, Jr., of Severna Park, Md.
Robert Macgregor Burn, of Owings Mills, Md.
Rodney Kenneth Caslow, of Baltimore, Md.
James Holdred Cole, Jr., of Columbia, Md.
Linda Ann Couch, of Severn, Md.
Patricia Maureen Cullen, of Baltimore, Md.
Avi Erblich, of Los Angeles, Calif.
Tracey Robyn Hamburg, of Baltimore, Md.
Bobbie Lee Helms, of Columbia, Md.
Phyllis B. Jensen, of Exmore, Va.
Sharron Carol Kellam-Bryant, of Baltimore, Md.
Kathleen Alice Kovaly, of Reisterstown, Md.
George Larry Lazarides, of Baltimore, Md.
Stephny Luce, of Baltimore, Md.
Walter Lee McGinn, Jr., of Baltimore, Md.
Constance Vaughan Oliver, of Baltimore, Md.
Diana Lynn O'Neil, of Baltimore, Md.
Andrea Michelle Passaro, of Dallas, Texas.
Maria Antoinette Porretti, of Baltimore, Md.
Kelly L. Raab, of Baltimore, Md.
Cheryl R. Rauh, of Baltimore, Md.
Kathleen P. Reasinger, of Baltimore, Md.
Nancy June Rock, of Baltimore, Md.
Karen Lee Schaefer, of Baltimore, Md.
Donna Lynn Suresch, of Glen Burnie, Md.
Robert Ray Strickler, Jr., of Pasadena, Md.
Ossie Tate, Jr., of Randallstown, Md.
Donna J. Taylor, of Baltimore, Md.
Sharon Marie Thompson, of Baltimore, Md.
Frances Stephanie Vitrano, of Baltimore, Md.
Patricia Ann Zeller, of Baltimore, Md.

## *Masters of Science in The School of Continuing Studies*

David Chandler Anderson, of Perryville, Md.; B.A. Salisbury State University, 1988. Applied Behavioral Science.

Felicia Monique Anderson, of Los Angeles, Calif.; B.S. Howard University, 1986. Education.

Amany Shalaby Aridi, of Gaithersburg, Md.; B.A. Howard University, 1988. Education.

Hope Chandler Baier, of La Plata, Md.; B.S. Towson State University, 1989. Education.

Kathryn Trimyer Baker, of Laurel, Md.; B.S. Towson State University, 1986. Applied Behavioral Science.

Anne Kennedy Bardelli, of Glen Burnie, Md.; B.A. Rivier College, 1971; M.B.A. Suffolk University, 1973. Education.

Christine Strahan Barker, of Baltimore, Md.; A.A. Bradford Junior College, 1969; B.S. University of Maryland, 1971. Education.

Colleen Dougherty Barlow, of Baltimore, Md.; B.S. Towson State University, 1985. Education.

Robyn Suzanne Barringer, of Baltimore, Md.; B.S.N. Barry University, 1982. Education.

Shari Joy Baruth, of Pittsburgh, Pa.; B.A. University of Delaware, 1987. Applied Behavioral Science.

Deborah Roberts Bates, of Baltimore, Md.; A.A. Essex Community College, 1981; B.S. Trenton State College, 1983. Education.

Colleen Brink Bell, of Gambrills, Md.; B.S. Northern State College South Dakota, 1976. Education.

Susan Ruth Benner, of Norristown, Pa.; B.S. University of Delaware, 1988. Education.

Philippe M.J. Beuzelin, of Bethesda, Md.; B.A. University of Montreal, 1957; M.A., 1959; M.A. Columbia University, 1966. Education.

Cheryl Mary Bevan, of Laurel, Md.; B.S. Rochester Institute of Technology, 1982. Education.

Bradley Charles Beyer, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1988. Education.

Michael Hugh Blaine, of Laurel, Md.; B.S. Towson State University, 1987. Education.

William Lawrence Boston III, of Baltimore, Md.; B.S. Coppin State College, 1973. Education.

Dawn Marie Bradford, of Lake City, Pa.; B.S. Baptist Bible College, 1987. Education.

Cheryl Renee Branch, of Baltimore, Md.; B.S. Towson State University, 1971; M.S. Coppin State College, 1982. Education.

Augusta Lynne Bumgarner Bryant, of Joppa, Md.; B.S. Carson Newman College, 1986. Education.

Susan Myers Burbage, of Potomac, Md. Education.

Barry Neil Burke, of Gaithersburg, Md.; B.S. University of Maryland, 1974. Education.

Ellen Katherine Burke, of Timonium, Md.; B.S. State University of New York at Cortland, 1977. Education.

David Brian Clement Burn, of Vienna, Va.; B.A. Florida Atlantic University, 1981. Education.

Samuel Caldwell, Jr., of Baltimore, Md.; B.S. Morgan State University, 1970; M.S., 1978. Education.

Annette Louise Cameron, of Kansas City, Kan.; B.S.B.A. Rockhurst College, 1972. Applied Behavioral Science.

Karen K. Campbell, of York, Pa.; B.S. Indiana University of Pennsylvania, 1986. Education.

Gloria J. Canonico, of Olney, Md.; B.S. Temple University, 1965. Education.

Lynn Berry Canterbury, of Westfield, Mass.; B.S. Westfield State College, 1982. Education.

Katherine G. Case, of Baltimore, Md.; B.A. Calvin College, 1984; M.A. St. Mary's Seminary and University, 1988. Education.

Alice Baker Cassman, of Bethesda, Md.; B.S. Boston University, 1962. Education.

Maria Lourdes Castillo, of Baltimore, Md.; B.S. Universidad de Costa Rica, 1985. Education.

Rosemary Catalana, of Baltimore, Md.; M.S. The Johns Hopkins University, 1990. Education.

Scott Joseph Chapman, of Annapolis, Md.; A.A. Anne Arundel Community College, 1966; B.A. University of Maryland, 1969. Applied Behavioral Science.

Wayne George Ching, of Baltimore, Md.; M.A. West Virginia University, 1969; C.A.S. The Johns Hopkins University, 1981. Education.

Lorena Altair Clanton, of Arnold, Md.; B.S. Salisbury State College, 1979. Education.

H. Susie Coddington, of Columbia, Md.; A.A. Potomac State College, 1967; B.S. West Virginia University, 1969; M.S., 1971; Ph.D. Texas Woman's University, 1975. Applied Behavioral Science.

Deborah Ruth Cohen, of Baltimore, Md.; B.S. University of Maryland, 1986. Education.

Cynthia Louise Cole, of Reisterstown, Md.; B.A. Loyola College, 1984. Education.

Cassandra Leigh Coleman, of Annapolis, Md.; B.S. University of Maryland, 1985. Applied Behavioral Science.

Kenna McCutcheon Colley, of Mahwah, N.J.; B.S. State University of New York at Geneseo, 1986. Education.

Allison Glasgow Croft, of College Park, Md.; B.S. University of Maryland, 1979. Education.

Jeanne Marie Croker, of Silver Spring, Md.; B.S.Ed. Shippensburg University, 1983. Education.

Linda Ann Crosslin, of Rockville, Md.; B.A. University of Maryland, 1974. Education.

Mark Howard Cytryn, of Silver Spring, Md.; B.T.L. Ner Israel Rabbinical College, 1986. Education.

Janet D'Agostino, of Upperco, Md.; B.S. The Johns Hopkins University, 1979; M.A. St. Mary's Seminary and University, 1986. Applied Behavioral Science.

Carl Anthony Dahlstrom, of The Canal Zone, Panama; B.S. University of Florida, 1983; M.S. University of West Florida, 1984. Applied Behavioral Science.

Kathy M. Davidheiser, of Springfield, Va.; B.S. Loch Haven University, 1970; M.Ed. Temple University, 1975. Education.

John Samuel Davis, of Centerport, N.Y.; A.A.S. Suffolk County Community College, 1987; B.A. State University of New York at Stony Brook, 1987. Applied Behavioral Science.

Leslie Gale Davis, of York, Pa.; B.A. York College of Pennsylvania, 1985. Education.

Karen Ehrhardt DeFeo, of Columbia, Md.; B.S. Kutztown State College, 1981. Education.

Pamela Jean Dello-Russo, of North White Plains, N.Y.; B.S. Pace University, 1975. Education.

Donald D. Dellone, of Baltimore, Md.; A.A. Essex Community College, 1983; B.S. Towson State University, 1986; M.A.S. The Johns Hopkins University, 1988. Applied Behavioral Science.

Lisa Wise DeNicola, of Germantown, Md.; B.S. Evangel College, 1985. Education.

Leslie Ann Deriso, of Miami, Fla.; B.A. Mount Vernon College, 1989. Education.

Miriam Tiana Diaz, of Baltimore, Md.; B.A. Towson State University, 1985. Education.

Curt Harold Doerr, of Rockville, Md.; B.S. Old Dominion University, 1975. Education.

George Roger Drummond, of Baltimore, Md.; B.S. Towson State University, 1969; M.Ed., 1978. Education.

Ray E. Easley, of Baltimore, Md.; B.S. Central Missouri State University, 1957; M.S., 1958. Education.

Dorothy Thomas Eckhardt, of Baltimore, Md.; B.A. Tufts University, 1986. Education.

Susan McCurdy Englehart, of Germantown, Md.; B.A. Wilson College, 1964. Education.

Lawrence Richard Epp, of Philadelphia, Pa.; B.A. University of Pennsylvania, 1988. Education.

Scott Daniel Espenscheid, of Baltimore, Md.; B.S. Western Maryland College, 1990. Education.

Brooke Thayne Estes, of Ellicott City, Md.; B.S. Salisbury State University, 1976. Economic Education.

John Scott Fansler, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1973. Education.

Elsa Lauer Fawcett, of Columbia, Md.; B.S. Pennsylvania State University, 1971; M.Ed., 1976. Education.

Irene Sarah Ferguson, of Frederick, Md.; A.A. Suffolk County Community College, 1983; B.S. James Madison University, 1986. Education.

Carol Ann Foose, of Baltimore, Md.; B.A. Goucher College, 1979. Education.

Mary Lynn Forte, of Baltimore, Md.; B.A. Loyola College, 1978. Education.

Colleen Ann Fox, of Lutherville, Md.; B.A. Seton Hill College, 1974. Education.

Laura Lee Garner, of Annapolis, Md.; B.S. Wilson College, 1989. Applied Behavioral Science.

Steven Payne Garrison, of Catonsville, Md.; B.A. Western Maryland College, 1973. Education.

Gayle Marie George, of Burtonsville, Md.; B.S. Mount Saint Mary's College, 1985. Education.

Michelle Blake Giangrandi, of Towson, Md.; B.A. Western Maryland College, 1989. Applied Behavioral Science.

Cheryl Blessing Gideon, of Annapolis, Md.; A.A. Anne Arundel Community College, 1977; B.S. University of Maryland, 1984. Applied Behavioral Science.

Norman William Giguere, of Baltimore, Md.; B.A. Concordia Teachers College, 1965. Education.

Evelyn R. Golley, of Street, Md.; B.S. Towson State University, 1985. Education.

Paddy Marie Gordon, of Columbia, Md.; B.S. University of North Carolina at Greensboro, 1979. Education.

Pearl A. Green, of Baltimore, Md.; B.S. Oral Roberts University, 1986. Education.

Jeane Camille Guy, of Baltimore, Md.; B.A. Morgan State University, 1977. Applied Behavioral Science.

Carol Fung Haddaway, of Columbia, Md.; B.A. University of Maryland, 1965. Education.

Martha Silcox Hankins, of Hampstead, Md.; B.A. Hood College, 1969. Education.

Sharon H. Hansen-Dreijer, of Odenton, Md.; B.S. Auburn University, 1978; M.S. University of Alabama, 1982. Education.

Jeanne Jo Harrison, of Newington, Conn.; B.A. Trinity College, 1987. Education.

Jan Louise Hartman-Mader, of Easton, Pa.; B.S. Bloomsburg State University, 1985. Education.

Karen Elaine Haynes, of Gowanda, N.Y.; B.S. State University of New York at Geneseo, 1981. Education.

Lora Janice Head, of Baltimore, Md.; B.S. Towson State University, 1974. Applied Behavioral Science.

Susan Heller, of Silver Spring, Md.; B.S. University of Maryland, 1985. Education.

Lei Arrin Hoffarth, of Ellicott City, Md.; B.A. Mount Holyoke College, 1984. Education.

Richard Lawrence Hotaling, Jr., of Hampstead, Md.; A.A. Essex Community College, 1971; B.S. University of Baltimore, 1976. Applied Behavioral Science.

Rodrigo Ibieta, of Santiago, Chile; B.A. University of Chile, 1984. Education.

Janet Carol James, of Silver Spring, Md.; M.A. Rutgers University, 1987. Education.

Ralph Beckford Jenkins, Jr., of Columbia, Md.; B.S. University of Maryland, 1987. Applied Behavioral Science.

Linda Beals Jensen, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1987. Education.

Lisette Marie Johnson, of Baltimore, Md.; B.S. Towson State University, 1988. Applied Behavioral Science.

Judy Moore Jones, of Riverdale, Md.; B.S. Fayetteville State University, 1974; M.Ed. University of Maryland, 1983. Economic Education.

Donna Ethelda Joy, of Baltimore, Md.; B.S. Towson State University, 1989. Education.

Martha Sue Kaltsukis, of Silver Spring, Md.; B.S. University of Maryland, 1982. Education.

Norma G. Karp, of Rockville, Md.; B.A. Hunter College, 1965. Education.

Sondra Klein Kasoff, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1985. Education.

Joyce Abelman Katze, of Rockville, Md.; B.A. Adelphi University, 1959; M.A. George Washington University, 1973. Education.

Susan Lane Kaufman, of Gaithersburg, Md.; B.S. University of Maryland, 1983. Education.

Terry Allen Kauffman, of Lititz, Pa.; B.S. Millersville University, 1968. Education.

Sheila Ann Kelly, of Baltimore, Md.; B.A. D'Youville College, 1965; M.Ed. Temple University, 1978. Applied Behavioral Science.

Sharon Lee Kenney, of Baltimore, Md.; B.S. University of Maryland, 1972. Education.

Kimberly Ann Kerr, of Baltimore, Md.; B.S. Towson State University, 1985. Applied Behavioral Science.

Mary Helm Ketcham, of Baltimore, Md. Applied Behavioral Science.

Molly Patricia Ketterer, of Marriottsville, Md.; B.S. Pennsylvania State University, 1982. Education.

Michelle Jean Kirkpatrick, of Derwood, Md.; B.A. Flagler College, 1981. Education.

Mary Katherine Kirwin, of Gaithersburg, Md.; B.A. Trinity College, 1984. Education.

Grace Knuckles Knox, of Lanham, Md.; B.A. Benedict College, 1967. Economic Education.

Michele Lynn Korus, of Buffalo, N.Y.; B.A. State University of New York at Geneseo, 1989. Applied Behavioral Science.

Jacqueline Margaret Langdon, of Lutherville, Md.; B.S. Washington College, 1988. Interdisciplinary Science Studies.

Jeana Carol Lawrence, of Belcamp, Md.; A.A. Villa Julie College, 1986; B.S. Towson State University, 1988. Education.

William Eric Lawrence, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1978. Education.

Carol Lynn Leach, of Annapolis, Md.; B.S. University of Colorado, 1966. Education.

Leona Pauline Lee, of Baltimore, Md. Economic Education.

Elizabeth Scott Leik, of York, Pa.; B.A. Kenyon College, 1986. Education.

Mary Phyllis Leonardi, of Baltimore, Md.; B.A. Salisbury State University, 1988. Education.

Maria Kutson Letras, of Baltimore, Md.; B.A. Towson State University, 1968. Education.

Judith A. Lewis, of Pittsburgh, Pa.; B.S. Cleveland State University, 1981. Applied Behavioral Science.

Jennifer Ellen Lister, of Princeton, N.J.; B.A. McGill University, 1986. Applied Behavioral Science.

Nina Beth Lonchar, of Bel Air, Md.; B.S. Indiana University of Pennsylvania, 1988. Education.

Norman Lowenthal, of Cedarhurst, N.Y.; B.T.L. Ner Israel Rabbinical College, 1989. Education.

Kathleen Jill Mader, of Naples, Fla.; B.S. University of Southern Mississippi, 1985. Education.

Gail Lynn Main, of Bethesda, Md.; B.S. Texas Christian University, 1973. Education.

Rachel Leah Maltinsky, of Baltimore, Md.; B.S. University of Cincinnati, 1984. Education.

Rose Therese Manning, of Baltimore, Md. Education.

Kendell Delores Matthews, of Silver Spring, Md.; B.S. Coppin State University, 1970. Education.

Candy Darling Maxwell, of Baltimore, Md.; B.S. Towson State University, 1984. Education.

Martha Zimmerman May, of Lancaster, Pa.; B.A. Princeton University, 1985. Education.

Teresa Irene McCassell, of Brooklyn, N.Y.; B.S. Morgan State University, 1988. Applied Behavioral Science.

Sandra Ann McCombe-Waller, of Ellicott City, Md.; B.S. University of Maryland at Baltimore, 1985. Education.

Dolores McGill, of Columbia, Md.; B.S.N. University of Notre Dame, 1981. Applied Behavioral Science.

Jo Ellen Herr McLaughlin, of Ellicott City, Md.; B.S. University of Maryland, 1972. Applied Behavioral Science.

Kathleen Helen McNally, of Drexel Hill, Pa.; B.S. University of Scranton, 1987. Education.

Paula B. Micka, of Columbia, Md.; B.A. Hood College, 1963. Education.

Joan S. Miller, of Maryland Line, Md.; B.S. University of Maryland, 1964. Education.

Teri Lynn Musy, of Wheaton, Md.; B.S. University of Maryland, 1983. Education.

Stacey Lynn Newbern, of Chesapeake, Va.; B.A. The Johns Hopkins University, 1988. Education.

Jane Eyre Nykiel, of Severn, Md.; B.S. College of Notre Dame of Maryland, 1981. Applied Behavioral Science.

Ellen Therese Oesterle, of Baltimore, Md.; B.S. University of Vermont, 1983. Education.

Deborah Scheidt Parker, of Baltimore, Md.; B.A. Towson State University, 1966. Education.

Suzanne Louise Parlette, of Sykesville, Md.; B.S. University of Maryland, 1978. Education.

Sarah J. Pavlik, of St. Paul, Minn.; B.A. University of Minnesota, 1981. Education.

Laurie Ann Perry, of Stevensville, Md.; A.S. Goldey Beacom College, 1983; B.S. University of Maryland, 1987. Applied Behavioral Science.

Claudia Perry-Sconion, of Ahoskie, N.C.; B.S. St. Augustine's College, 1970; M.B.A. Morgan State University, 1975. Economic Education.

Barbara Vescio Pichler, of Philadelphia, Pa.; B.A. Temple University, 1976; M.A. Bryn Mawr College, 1978. Education.

Lila Lisa Pniewski, of Baltimore, Md.; A.A. Dundalk Community College, 1982; B.A. University of Baltimore, 1985. Applied Behavioral Science.

Marcus Evin Pollock, of Baltimore, Md.; B.S. Coppin State College, 1975; M.A. Antioch University, 1981. Applied Behavioral Science.

Joan S. Portanova, of Edgewood, Md.; B.S. Pennsylvania State University, 1983. Education.

Tracy Hopkins Porter, of Severna Park, Md.; B.S. Towson State University, 1985. Applied Behavioral Science.

Anita Louise Pringle, of Monkton, Md.; B.A. Loyola College, 1983. Applied Behavioral Science.

Mary Catherine Quigg, of Catonsville, Md.; B.S. University College, Galway, Ireland, 1981. Interdisciplinary Science Studies.

Esther Veise Quinn, of Baltimore, Md.; A.A. Community College of Baltimore, 1970; B.S. Towson State University, 1972. Education.

James Patrick Quinn, of Baltimore, Md.; A.A. Dundalk Community College, 1982; B.A. University of Baltimore, 1988. Applied Behavioral Science.

Brian Edward Radcliffe, of Baltimore, Md.; B.S. Towson State University, 1978. Education.

Robert Lee Ragin, of Baltimore, Md.; B.A. Morris College, 1966. Economic Education.

Susan Clark Rapelyea, of York, Pa.; B.S. Adelphi University, 1980. Education.

Mary Carol Ridder, of Alexandria, Va.; B.S.N. Georgetown University, 1989. Education.

Pamela Ann Rizzuti, of Germantown, Md.; B.S. Bowling Green State College, 1985. Education.

Toni P. Robinson, of Baltimore, Md.; A.A. Community College of Baltimore, 1987; B.S. The Johns Hopkins University, 1990. Applied Behavioral Science.

Barbara Lyn Ross, of Federalsburg, Md.; B.S. Frostburg State University, 1987. Education.

Amy Margaret Roth, of Springfield, Va.; B.A. Franklin & Marshall College, 1987. Education.

Nancy Barbara Sachs, of Ellicott City, Md.; B.S. University of Maryland, 1974; M.Ed., 1977. Education.

Anne Marie Salander, of Baltimore, Md.; B.A. Brooklyn College, 1968. Applied Behavioral Science.

Sandra K. Saville, of Westminster, Md.; A.A. Villa Julie College, 1968; B.S. University of Baltimore, 1980. Applied Behavioral Science.

Carol Ann Eads Schexnayder, of Baltimore, Md.; M.S. The Johns Hopkins University, 1986. Education.

Cathy Ann Schneider, of Columbia, Md.; B.A. University of Maryland, Baltimore County, 1979. Education.

Jaqueline Ann Dunn Schultz, of Pasadena, Md.; A.A. Anne Arundel Community College, 1982; B.A. College of Notre Dame of Maryland, 1985. Education.

James Peter Seeberger, Jr., of Baltimore, Md.; B.S. Towson State University, 1975. Applied Behavioral Science.

Elizabeth Butcher Shaffer, of Burtonsville, Md.; B.S. University of Maryland, 1985. Education.

Jonathan Mitchell Shapiro, of Newport, R.I.; B.T.L. Ner Israel Rabbinical College, 1987. Education.

JoAnne Bonafair Shartle, of Mt. Airy, Md.; B.A. Immaculata College, 1976. Education.

Vicki Lynn Shockey, of Lonaconing, Md.; A.A. Essex Community College, 1977; B.S.N. College of Notre Dame of Maryland, 1981. Applied Behavioral Science.

Elizabeth Rawleigh Simons, of Baltimore, Md.; B.A. Hollins College, 1968. Applied Behavioral Science.

Charlotte Robinson Smith, of Baltimore, Md.; B.A. Agnes Scott College, 1973. Education.

Diana Teresa Smith, of Street, Md.; B.S. Towson State University, 1984. Education.

Ronald Edward Smith, of Beaverdam, Va.; B.S. The Johns Hopkins University, 1989. Applied Behavioral Science.

Shirley Turner Smith, of Upper Marlboro, Md.; B.A. Saint Augustine's College, 1965. Economic Education.

Karen Abraham Snyder, of Gaithersburg, Md.; B.A. University of Virginia, 1983. Applied Behavioral Science.

Susan Beth Sowbel, of Baltimore, Md.; B.A. Notre Dame University, 1987. Education.

Dixie Lee Speare, of Baltimore, Md.; B.S. The Johns Hopkins University, 1976. Education.

Mary Waters Spounagle, of Brandywine, Md.; B.S. University of Maryland, 1973. Education.

Emily Louise Stanley, of Columbiana, Ohio; B.A. Earlham College, 1982. Education.

Janice Lee Staples, of Baltimore, Md.; B.A. The Johns Hopkins University, 1983; M.A., 1983; M.L.A., 1990. Applied Behavioral Science.

Sharyn Rosenberg Stein, of Owings Mills, Md.; B.S. Towson State University, 1987. Education.

Rebecca Ann Stephens, of Severn, Md.; B.S. Western MarylandCollege, 1964. Education.

Amy M. Stevens, of Augusta, Maine; B.S. Liberty University, 1975; M.Ed. The Citadel, 1986. Education.

Laura Hosman Stevens, of West Pittston, Pa.; B.S. Elizabethtown College, 1984. Education.

Debra Stevenson, of Baltimore, Md.; B.A. WinstonSalem State University, 1985. Education.

Jack Lester Stotsky, of Baltimore, Md.; A.A. University of Florida, 1960; B.S., 1963. Applied Behavioral Science.

John Lawrence Sullivan, of Washington, D.C.; A.P.S. St. John's University of New York City, 1969; B.S., 1971. Applied Behavioral Science.

Alma Hope Suter, of Baltimore, Md.; B.A. Susquehanna University, 1980. Education.

Donna Lee Sutherland, of Pittsburgh, Pa.; B.S. Duquesne University, 1982. Education.

Robin Ann Sutton, of Las Vegas, Nevada; B.S. University of Nevada Las Vegas, 1983. Education.

Nancy Frost Tate, of Covington, Pa.; B.S. Mansfield University, 1979. Applied Behavioral Science.

Pamela Ann Thompson, of Darien, Conn.; B.S. University of Maryland, 1983. Education.

Natalie A. Treece, of Hershey, Pa.; B.S. Lebanon Valley College, 1972. Education.

Janice Dee Vanisko, of Columbia, Md.; B.S.N. University of Oregon, 1963. Education.

Nancy Hanlon Varelli, of Forest Hill, Md.; B.S. Towson State University, 1969. Education.

Lisa Joy Vezzi, of Eldersburg, Md. Education.

Barton Fellows Walker III, of Baltimore, Md.; B.A. University of Maryland, 1970; J.D. University of Baltimore, 1974. Applied Behavioral Science.

Sharon Merchant Ward, of Baltimore, Md.; A.A. The Johns Hopkins University, 1985; B.S., 1989. Applied Behavioral Science.

Judith Weber-Lucas, of Columbia, Md.; B.A. Western Michigan University, 1969. Applied Behavioral Science.

Kathleen A. Weeks, of Yorktown, Va.; B.A. The Johns Hopkins University, 1989. Education.

Jennifer Loretta Weymont, of Sacramento, Calif.; B.A. Georgia State University, 1981. Education.

Claudia A. White, of Charlotte, N.C.; A.A. Howard Community College, 1978; B.S. University of Maryland, 1980; M.Cert., 1987. Education.

Cheryl Robinson Wieker, of Ellicott City, Md.; B.A. New York University, 1975. Applied Behavioral Science.

David Jay Wiener, of Baltimore, Md.; B.A. The Johns Hopkins University, 1984. Education.

Amy V. Wilcox, of Baltimore, Md.; B.S. Towson State University, 1974. Applied Behavioral Science.

Carl C. Wilkins, Jr., of Baltimore, Md.; A.A. Essex Community College, 1980; B.S. Towson State University, 1984. Applied Behvioral Science.

Gelbert Lee Wilson, of Uniontown, Pa.; B.A. Marshall University, 1973; M.Div. Wesley Theological Seminary, 1976. Economic Education.

Cathryn Spivey Wingate, of Pasadena, Md.; B.A. Western Maryland College, 1985. Education.

Deborah Ann Winslow, of Baltimore, Md.; B.A. University of Maryland, 1988. Education.

Carol Jackson Winstead, of Baltimore, Md.; A.A. Pine Manor College, 1967; B.A. Goucher College, 1969. Education.

Elise Richels Wolf, of Baltimore, Md.; B.A. Touro College, 1988. Education.

Fran G. Zarubick, of Baltimore, Md.; B.S. Immaculate Heart College, 1978. Applied Behavioral Science.

Hayim Eliezer Zeif, of Baltimore, Md. Education.

Jeana Young Zeiler, of Frederick, Md.; B.S. East Tennessee State University, 1969; M.L.S. George Peabody College for Teachers, 1971. Education.

Jian (Jane) Zhang, of Peoples Republic of China. Education.

Ellen Durkin Zielinski, of Annapolis, Md.; B.S. Marywood College, 1979. Education.

Diana Frey Zilahy, of Glastonbury, Conn.; B.S. New York University, 1968; M.S. Millersville University, 1970. Education.

## *Masters of Liberal Arts in The School of Continuing Studies*

Christine Elizabeth Amiss, of London, England; B.Ed. London University, 1985.

Stephen Joseph Amrhein, of Baltimore, Md.; B.A. Towson State University, 1975.

Linda Susan Belosevic, of Baltimore, Md.

J. Joseph Clarke, of Baltimore, Md.; M.A.S. The Johns Hopkins University, 1976.

James Roderick Crook, Jr., of Baltimore, Md.; B.A. Loyola College, 1942; J.D. Georgetown University, 1948.

Sohayla Raja Eberl, of Ellicott City, Md.; B.S.N. University of Maryland, 1986.

Gretchen Ann Garman, of Baltimore, Md.; M.A. Towson State University, 1981.

Daniel Gordon, of Owings Mills, Md.; B.S. The Johns Hopkins University, 1945; J.D. University of Maryland, 1953.

Susan Elliott Huerta, of Baltimore, Md.; A.A. Villa Julie College, 1984; B.S. University of Baltimore, 1986.

Roxie Johnson, of Delta, Pa.; B.S. York College of Pennsylvania, 1980.

Joanne Jennings Kahn, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1973.

Jennifer Mary Lindsay, of Baltimore, Md.; B.S. Alderson Broaddus College, 1977.

Mary Helen Lis, of Baltimore, Md.; B.S. Towson State University, 1986.

Melodie Marie Mabanta, of Joppatowne, Md.

Scott Cary MacLauchlan, of Davidsonville, Md.; B.A. University of Maryland, 1981.

John Kenneth MacLean, of Baltimore, Md.; M.Ed. Towson State University, 1977.

Lisa Anne Mix, of Baltimore, Md.; B.A. Goucher College, 1984.

Michael Dean Moyer, of Baltimore, Md.; B.A. Kalamazoo College, 1979.

Mark Francis O'Connor, of Baltimore, Md.; B.S. Towson State University, 1978.

Andrew Neville Parlour, of Baltimore, Md.; B.A. The Citadel, 1989.

Paul Joseph Parmigiani, of Baltimore, Md.; B.S. Syracuse University, 1989.

Michael Patrick Patterson, of Baltimore, Md.; B.A. New York University, 1987.

Lee Ann Ware Peck, of Tanetown, Md.; B.A. Western Maryland College, 1985.

Ellen McDonald Perry, of Lutherville, Md.

Marjorie Christine Kameen, of Baltimore, Md.; B.S.N. University of Maryland, 1979.

Joseph Andrew La Magna III, of Kettering, Ohio; B.S. United States Air Force Academy, 1985.

Jeanette Fisher Reid, of Timonium, Md.; B.A. Mary Baldwin College, 1956.

Laura Burton Rice, of Baltimore, Md.; A.A. Columbus International College, Seville, Spain, 1978; B.A. Goucher College, 1981.

Daniel Jerome Ripienski, of Chippewa Falls, Wis.; B.B.A. University of Wisconsin, 1972.

Monica Elaine Robbins, of Columbia, Md.; B.A. University of Maryland, 1983.

Andrew Barry Rusnak, Jr., of Baltimore, Md.; B.S. Towson State University, 1982.

Tod Nathan Rutstein, of Baltimore, Md.; B.A. Connecticut College, 1983.

Judith Strouse Sandler, of Baltimore, Md.; B.A. University of Pennsylvania, 1984.

Richard Gordon Puller, of Baltimore, Md.

Lawrence Calvert Putgenter, of Columbia, Md.; B.A. University of Maryland, Baltimore County, 1987.

Joseph Christopher Schaub, of Baltimore, Md.; A.A. Community College of Baltimore, 1984; B.A. University of Baltimore, 1986.

Diana Campuzano Schramm, of Baltimore, Md.; B.A. Bryn Mawr College, 1962.

Joanne Ferchland Schruefer, of Taneytown, Md.; B.A. Loyola College, 1981.

Robert Alan Seidel, of Baltimore, Md.; B.A. University of Michigan, 1968.

Barney Sellers, of Columbia, Md.; B.A. Community College of New York, 1963; M.A. Syracuse University, 1972.

Constance Mary Tsakiris, of Baltimore, Md.; B.A. Goucher College, 1973; M.S. The Johns Hopkins University, 1983.

Sarah Knox White, of Columbia, Md.; B.S. University of Virginia, 1983.

## *Masters of Arts in Teaching in The School of Continuing Studies*

Linda Stuntz Adamson, of Annapolis, Md.; B.A. University of North Carolina, 1971.

Jay Allison Fogleman, of Columbia, Md.; B.S. University of Maryland, 1984.

Mary Elizabeth Gavigan, of Baltimore, Md.; B.S. Towson State University, 1987.

Zoe McMeekin Heineman, of Baltimore, Md.; B.S. Georgetown University, 1987.

Alan Keith Meeker, of Skyron, Wis.; B.S. Florida Institute of Technology, 1982.

German Guillermo Tampe, of Baltimore, Md.; B.S. Catholic University of America, 1988.

## *Masters of Administrative Science in The School of Continuing Studies*

Elizabeth Ann Adams, of Bel Air, Md.; B.S.N. Salisbury State University, 1981. Management.

Pamela Alison Ainsworth, of Frederick, Md.; B.S. University of Maryland, 1986. Financial Management.

Terence Michael Almon, of Lutherville, Md.; B.A. St. Mary's Seminary and University, 1973; M.A. University of Louvain, 1977. Management.

Jeffrey Eugene Andrews, of Columbia, Md.; B.A. Shippensburg University, 1976. Management.

Robin Lynn Appel, of Philadelphia, Pa.; B.B.A. University of Pennsylvania, 1988. Management.

Charles Howard Arnett, of Taylorsville, Md. Information Technology.

Lisa Cavanaugh Auld, of Pasadena, Md.; B.S. University of Maryland, 1988. Information Technology.

Oscar Noble Ayub, of Chihuahua, Mexico; B.S. Monterey Institute of Technology, 1984. Financial Management.

Scott Edward Bachik, of Johnstown, Pa.; B.S. Carnegie Mellon University, 1985. Information Technology.

James Thomas Baily, Jr., of Owings, Md.; B.S. University of Maryland, 1987. Management.

Linda Droter Baily, of Owings, Md.; B.S. University of Maryland, Baltimore County, 1985. Management.

Kathleen R. Baker, of Baltimore, Md.; B.A. University of Connecticut, 1972. Human Resource/Behavioral Management.

Frank Adrian Barksdale, of Baltimore, Md.; B.S. Morgan State University, 1982. Financial Management.

Mark Albert Bassett, of Philadelphia, Pa.; B.S.N. University of Maryland, 1985. Information Technology.

FranLynn Baum, of Baltimore, Md.; B.A. Dickinson College, 1976. Management.

Evelyn Taylor Beasley, of Baltimore, Md.; B.S. Coppin State College, 1954. Management.

Marvin R. Bell, of Pikesville, Md.; A.A. Community College of Baltimore, 1974; B.S. University of Baltimore, 1979. Information Technology.

Betsy Ann Bender, of Pasadena, Md.; B.A. Elizabethtown College, 1986. Management.

Carol Cecelia Bennett, of Stony Brook, N.Y.; B.S. United States Coast Guard Academy, 1981. Financial Management.

Deborah Lynn Bieber, of York, Pa.; B.S.C.S. The Pennsylvania State University, 1986. Information Technology.

Patrick Henry Birmingham, of Baltimore, Md.; B.S. Duquesne University, 1965. Management.

Cynthia Ann Black, of Baltimore, Md.; B.S. Salisbury State University, 1979. Management.

Mary-Rita Elizabeth Blute, of Baltimore, Md.; B.A. Harvard University, 1980; M.S. Simmons College, 1983. Information Technology.

Ralph Harold Bourquin, Jr., of Baltimore, Md.; B.S.M.E. CarnegieMellon University, 1972. Financial Management.

Christine Ann Fonder Braccio, of Greenwich, Conn.; B.S. University of Connecticut, 1983. Human Resource/ Behavioral Management.

Steven Mark Brannan, of Bel Air, Md.; B.A. Western Maryland College, 1984. Financial Management.

Gayle Ann Bremer, of Severna Park, Md.; A.A.S. Community College of the Air Force, 1983; B.S. Trenton State College, 1985. Management.

Maureen Noonan Brooks, of Columbia, Md.; B.S. Frostburg State University, 1984. Financial Management.

Edith Pettway Brown, of Mobile, Ala.; B.S. Alabama State University, 1980. Information Technology.

Gary Walter Brown, of Columbia, Md.; B.S.C.E. University of Maryland, 1985. Management.

Kristen Meyer Brown, of Silver Spring, Md.; B.S. Towson State University, 1984. Management.

Jacquelyn Ann Bruce, of Columbia, Md.; B.S. Virginia Polytechnic Institute and State University, 1986. Information Technology.

Carol Stephenson Bullock, of Columbia, Md.; B.S.B.A. Ohio State University, 1983. Human Resource/Behavioral Management.

Linda Kaye Burks-Barbour, of Akron, Ohio; A.A. Community College of Baltimore, 1978; B.A. University of Baltimore, 1983. Management.

Kathryn Lenhard Byrd, of Baltimore, Md.; B.M. American University, 1976. Management.

Pamela Martin Bythrow, of Dallas, Texas; A.S. El Centro, 1971; B.S. University of Texas at Dallas, 1978. Management.

Susan Gudiness Campbell, of Columbia, Md.; B.A. University of Maryland, Baltimore County, 1973. Information Technology.

Cynthia Canu, of Waterbury, Conn.; B.S. Central Connecticut State University, 1982. Management.

Alfred William Caponti, of Silver Spring, Md.; B.S. Villanova University, 1965. Information Technology.

Michael Goerge Chaconas, of Washington, D.C.; B.S. University of Maryland, 1979. Financial Management.

Laurie Ann Chalk, of Baltimore, Md.; B.S. Towson State University, 1985. Management.

Jeannne Parker Chambers, of Baltimore, Md.; B.S.N. Notre Dame University 1983. Management.

Mark Carl Charitonuk, of Towson, Md.; B.S. Towson State University, 1986. Management.

Leslie R. Chase, of Portland, Maine; B.A. Connecticut College, 1978. Management.

Chin-Sung Chen, of Columbia, Md.; B.A. Taiwan Normal University, 1966; M.M. The Johns Hopkins University, 1972. Information Technology.

Melinda Chiu, of Wilmington, Del.; B.S. University of Delaware, 1986. Information Technology.

Min-Li Chung, of Potomac, Md.; B.S. University of Maryland, 1982. Information Technology.

Gregory David Church, of York, Pa.; B.S. Pennsylvania State University, 1983; M.S. The Johns Hopkins University, 1988. Management.

Edward Leroy Collins III, of Pittsburgh, Pa.; B.S. United States Naval Academy, 1984. Financial Management.

Richard M. Conroy, of Laurel, Md. Management.

Audrey Joyce Cooke, of Columbia, Md.; B.S.N. Goerge Mason University, 1984. Management.

Marietta J. Coon, of Mt. Prospect, Ill.; B.S. Illinois State University, 1982. Management.

Denise Callahan Copperthite, of Baltimore, Md.; B.S. Salisbury State University, 1986. Management.

Brennan Marie Corbett, of Alexandria, Va.; B.E.T. University of South Florida, 1984. Financial Management.

Patricia Hogan Cossart, of Baltimore, Md.; B.S.B.A. University of Delaware, 1986. Information Technology.

Lewis L. Cox, Jr., of New Port Richey, Fla; B.S. Auburn University, 1979. Information Technology.

Karen E. Crews, of Columbia, Md.; A.A. Howard Community College, 1969; B.A. University of South Carolina, 1984.

James Thomas Crider, of Gaithersburg, Md.; B.S. Towson State University, 1982. Information Technology.

Leah Lorraine Cromwell, of Edgewood, Md.; A.A. Harford Community College, 1987; B.S. University of Maryland, 1989. Information Technology.

Regina Cutrone Crowell, of North Bellmore, N.Y.; B.S.N. Duquesne University, 1984. Management.

Barbara Anne Daily, of Baltimore, Md.; B.A. University of Delaware, 1984. Management.

Eileen Gillan Davidson, of Baltimore, Md. Management.

Glen Davis, of Lexington, Ky.; B.S. University of Kentucky, 1977. Financial Management.

Janice M. Davis, of Baltimore, Md.; B.S. Loyola College, 1978. Management.

Janet Marie Decker, of Baltimore, Md.; A.A. Essex Community College, 1976; B.S.N. University of Maryland, 1982. Human Resource/Behavioral Management.

Jeffrey Noel Deel, of Eldersburg, Md.; B.S. York College of Pennsylvania, 1986. Financial Management.

Maria Jocelissa Tan-Gatue del Rosario, of La Plata, Md.; B.A. University of Maryland, Baltimore County, 1987. Management.

Sandra Eilene Denefield, of Jacksonville, Fla. Human Resource/Behavioral Management.

Joseph M. DiTommaso, of Mt. Laurel, N.J.; B.S. Rutgers University, 1985. Management.

Arlene Samson De Vera, of Ashburn, Va.; B.S.P.P. Strayer College, 1987. Information Technology.

Ronald Payuran De Villa, of Manila, Philippines; B.A. Ateneo De Manila University, 1982. Management.

Edgar Daniel Draper, Jr., of New York, N.Y.; B.A. Lincoln University, 1981. Information Technology.

Sheryl Lynn Dollarhide, of Germantown, Md.; B.S. University of Maryland, 1986. Human Resource/Behavioral Management.

Judith Ann Dumraul, of Baltimore, Md.; B.S. University of Maryland, 1988. Management.

Sharon Rence Dunn, of Ellicott City, Md.; B.A. University of Maryland, 1986. Management.

Dennis L. Ebert, of Baltimore, Md.; B.S. University of Maryland, 1976. Management.

Annemarie Brigitte Eckhardt, of Washington, D.C. Management.

Robert Louis Edwards, of Ellicott City, Md.; B.A. Western Maryland College, 1977. Information Technology.

Robert Jeffrey Evans, of Baltimore, Md.; B.S. Towson State University, 1984. Management.

John Thomas Everett, of Columbia, Md.; B.A. University of Maryland, Baltimore County, 1970. Management.

Heather Anne Fagan, of Bel Air, Md.; B.S. James Madison University, 1988. Management.

Kenneth E. Fahnstock, of Baltimore, Md.; B.S. Towson State University, 1978. Management.

Mark Stephen Fanto, of Timonium, Md.; A.A. Essex Community College, 1983; B.S. University of Baltimore, 1985. Management.

Andrew E. Federkeil, of Columbia, Md.; B.S.M.E. West Virginia University, 1983. Management.

John William Ferkany, of Baltimore, Md.; B.S. University of Michigan, 1976; Ph.D. University of Texas at Houston, 1980. Management.

D. Danielle Ferris, of Clinton Ind.; B.S. Indiana State University, 1986. Financial Management.

Kenneth L. Fischbach, of Baltimore, Md.; B.A. University of Baltimore, 1986. Financial Management.

Leonard George Fischer, of Elkridge, Md. Information Technology.

Laura Leigh Flanigan, of Baltimore, Md.; B.S. University of Virginia, 1981. Management.

Gale M. Fleisch, of Baltimore, Md.; B.S. Towson State University, 1973. Management.

Donald Charles Fleming, Jr., of Chesterfield, Va.; B.S. Union College, 1970; M.A. Syracuse University, 1973; Ph.D., 1976. Human Resource/Behavioral Management.

Edward Paul Fletcher, of Upper Darby, Pa.; B.S. Pennsylvania State University, 1986. Financial Management.

Kathryn Marie Foegen, of Laurel, Md. Management.

Robert James Ford, of Baltimore, Md.; B.S. University of Baltimore, 1982. Financial Management.

Rose Ann Fornario, of Ellicott City, Md.; B.A. University of Maryland, 1983. Financial Management.

Preston Michael Frazier, of Baltimore, Md.; B.S. Western Connecticut State College, 1982. Management.

T. Talmage Funk, of Elkton, Md.; B.B.A. College of William and Mary, 1983. Financial Management.

John Joseph Gaeng, of Towson, Md.; B.S. Towson State University, 1986. Management.

Paul Dillon Gallagher, of Glendale, Calif.; A.A. Glendale College, 1985; B.S. University of Redlands, 1988. Management.

Robert Milton Geldmacher, of Taylorsville, Md.; B.S.E.E. The Johns Hopkins University, 1975. Information Technology.

Anita Teresa Germershausen, of Pasadena, Md.; A.A. University of Baltimore, 1982; B.S., 1984. Financial Management.

Leslie Gadow Gettier, of Arnold, Md.; B.S. University of Maryland, 1974; M.Ed. The Johns Hopkins University, 1981. Human Resource/Behavioral Management.

Susan Lee GiacomaGlavach, of Corry, Pa.; B.S. California University of Pennsylvania, 1984. Financial Management.

Martin Goldberg, of Baltimore, Md.; B.T.L. Ner Isreal Rabbinical College, 1988. Financial Management.

Elizabeth Rastetter Golla, of Stewartstown, Pa.; B.S. Lewis University, 1962. Information Technology.

Alma Noble Goodwin, of Columbia, Md.; A.A. Howard Community College, 1985; B.S. Bennett College, 1972. Information Technology.

Booker T. Goodwin, Jr., of Asheville, N.C.; B.S. North Carolina Agricultural and Technical State University, 1970. Management.

Shanon Lynn Graves, of Baltimore, Md.; A.A. Dundalk Community College, 1980; B.S. Towson State University, 1982. Management.

Teresa Ann Gray, of Waldorf, Md.; A.A. Charles County Community College, 1983; B.S. University of Maryland, 1985. Financial Management.

Michael Richard Greaney, of Silver Spring, Md.; B.A. University of Maryland, 1984. Management.

Donna Sue Greenberg, of Owings Mills, Md.; B.S.R.N. University of Maryland, 1978. Management.

Joel Sander Greenberg, of Baltimore, Md.; B.A. The Johns Hopkins University, 1983. Management.

Marjorie Clarisa Greene, of Severn, Md.; B.A. Princeton University, 1988. Financial Management.

Pamela E. Griffin, of Baltimore, Md.; B.A. University of Maryland Baltimore County, 1977. Information Technology.

Ronna S. Grossman, of Butler, Pa.; B.S. Pennsylvania State University, 1982. Management.

Thomas J. Guarino, of Annapolis, Md.; B.A. Long Island UniversityC.W. Post College, 1986. Management.

Michael I. Haas, of Silver Spring, Md.; B.S. University of Maryland, 1982. Information Technology.

Adrienne Townes Haden, of Gaithersburg, Md.; B.A. University of Virginia, 1977. Information Technology.

Elaine Denise Hall, of Pasadena, Md.; B.S.C.S. Towson State University, 1985. Management.

Margaret Brill Hall, of Babylon, N.Y.; B.S.N. Catholic University of America, 1970. Management.

Mary Elizabeth Stone Hall, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1983. Management.

Thomas Robert Hancock, of Highland, Md. Management.

Louise H. Hanson, of Rockville, Md.; B.A. Northern Illinois University, 1971. Information Technology.

David Joseph Harold, of Lansdowne, Md.; A.A. Catonsville Community College, 1984; B.S. University of Maryland, Baltimore County, 1988. Information Technology.

Shery Lester Harper, of Jessup, Md.; B.S. North Carolina Agricultural & Technical State University, 1985. Information Technology.

Joseph H. Hartman, of Whitehall, Md. Management.

Jeffrey Lynn Harvey, of Reisterstown, Md.; B.S. Fairmont State College, 1984. Information Technology.

Germaine Lynn Hawkins, of Petersburg, W.Va.; B.S. West Virginia University, 1985. Management.

Pamela Jayne Heck, of Camphill, Pa.; B.A. Gettysburg College, 1985. Management.

Rosa Renna Heckle, of Columbia, Md.; B.S. Virginia Commonwealth University, 1986. Management.

Christine Dianne Heinrich, of Butler, Pa.; B.S. University of Pittsburgh, 1986. Management.

Laraine S. Henchal, of Derwood, Md.; B.S. Pennsylvania State University, 1976. Management.

Glenda Renee Hicks, of Baltimore, Md. Management.

Maureen Hunt Hinkle, of Sharon, Pa.; B.A. Mercyhurst College, 1974. Information Technology.

Joanne Theresa Hiss, of Monkton, Md.; B.S. Southern Connecticut State College, 1980; M.S., 1982. Management.

Laurrie Jean Hoffman, of Baltimore, Md.; B.A. Longwood College, 1979. Management.

Timothy Holt, Jr., of Severn, Md.; B.S. Bowie State University, 1987. Management.

Robert Reese Hooks, of Columbia, Md.; B.S. Cornell University, 1983. Financial Management.

Vicki Lynn Hop, of Hudsonville, Mich.; B.A. Hope College, 1987. Management.

Thomas Michael Howser, Arbutus, Md.; B.A. Towson State University, 1976. Management.

Ronald William Huffman, of Baltimore, Md.; B.A. University of Pittsburgh, 1982. Financial Management.

Don R. Hullinger, Jr., of Salt Lake City, Utah; B.S. Brigham Young University, 1985. Management.

James Andrew Hunter, of Silver Spring, Md.; B.S. College of William and Mary, 1982; M.B.A., 1986. Information Technology.

Nachum I. Hurvitz, of Flushing, N.Y.; B.T.L. Ner Israel Rabbinical College, 1988. Information Technology.

Jaquelyn Smith Jablonski, of Baltimore, Md.; B.S. Towson State University, 1985. Management.

Joseph B. Jennings, of Severn, Md.; B.A. University of Maryland, 1983. Information Technology.

Ingrid Jensen, of Columbia, Md.; B.S. Virginia Polytechnic Institute and State University, 1985. Management.

Madelyn Frieda Johannesen, of Baltimore, Md.; A.A. Dundalk Community College, 1979; B.A. Loyola College, 1983. Management.

Barbara Susan Johnson, of Westminster, Md.; B.A. University of Maryland, Baltimore County, 1980. Management.

Brenda Jordan Jones, of West Point, Va.; A.A. Prince George's Community College, 1977; B.S. University of Maryland, 1979. Financial Management.

Elizabeth Snyder Jones, of Baltimore, Md.; B.A. Western Kentucky University, 1981; M.A., 1983. Information Technology.

Terry Lee Jones, of Baltimore, Md.; B.S.E.E. University of Maryland, 1987. Financial Management.

Joan Bonnie Joy, of Timonium, Md.; B.A. Goucher College, 1983. Human Resource/Behavioral Management.

David Allen Kacynski, of Peoria, Ill.; B.S. Bradley University, 1979. Management.

Ellen Joyce Kaplan, of Waltham, Mass.; B.S. Boston University, 1982. Management.

Christopher Sayre Karis, of Germantown, Md.; A.A. Oakloosa Walton Junior College, 1983; B.S. University of West Florida, 1986. Financial Management.

Ronald Barry Karpel, of Baltimore, Md.; B.A. University of Maryland, 1973. Management.

Michael L. Karpouzie, of Baltimore, Md.; B.S. Towson State University, 1985. Financial Management.

Elizabeth Ann Kasper, of Baltimore, Md.; A.A. Villa Julie College, 1985; B.S. University of Baltimore, 1987. Management.

Andrea Nikie Katz, of York, Pa.; B.S. Pennsylvania State College, 1985. Management.

Cathy C. Keagle, of Ellicott City, Md.; B.S.E.E. University of Delaware, 1982. Management.

Jillian Heayn Kelly, of Baltimore, Md.; B.A. University of Baltimore, 1973. Information Technology.

David Keyman, of Olney, Md.; B.S. University of Maryland, 1974. Information Technology.

Deveshwari Prasad Khare, of Baltimore, Md.; Ph.D. Lucknow University, India, 1980. Information Technology.

Barbara Ann Kimsey, of Abingdon, Md.; B.S. College of Notre Dame of Maryland, 1983. Human Resource/Behavioral Management.

Brenda Lea Klamut, of Harrisonburg, Va.; B.S. West Virginia University, 1984. Management.

Melissa L. Kleinert, of Baltimore, Md.; B.B.A. Loyola College, 1985. Information Technology.

Eugina Klikna-Kokes, of Vacaville, Calif.; B.S.N. Creishton University, 1976; M.N. University of Washington, 1980. Management.

Irene D. Knott, of Baltimore, Md.; B.C.E. University of Delaware, 1985. Management.

Helen Linda Kolesar, of Sewickley, Pa.; B.S.N. Duquesne University, 1984. Management.

Stacy Leigh Korbelak, of Ellicott City, Md.; B.A. University of Michigan, 1987. Management.

Valerie Anne Krauss, of Baltimore, Md.; B.S. The Johns Hopkins University, 1987. Management.

Erundina Azcueta Krenzischek, of Cabugao, Ilocossur, Philippines; B.S.N. St. Paul College, 1971. Management.

Joanne Waddington Kyriacopoulos, of Parkville, Md.; B.S. Drexel University, 1982. Management.

Rudolph B. Lamy, of Catonsville, Md. Management.

Kathy Jean Landau, of Elkridge, Md.; B.A. Cornell University, 1978. Human Resource/Behavioral Management.

Monica E. Larson, of Baltimore, Md.; M.F.A. Syracuse University, 1985. Management.

Mary Beth Leatherbarrow, of Glen Burnie, Md.; B.S. State University of New York at Buffalo, 1965. Information Technology.

John Francis Lennon, of Baltimore, Md.; A.A. Essex Community College, 1983; B.M.E. The Johns Hopkins University, 1986. Management.

Richard James Leppert, of Columbia, Md.; B.A. University of Massachusetts, 1981. Management.

Gerald Thomas Lester, Jr., of Kinston, N.C.; B.S.C.R.E. North Carolina State University, 1965; M.B.A. State University of New York at Buffalo, 1970. Information Technology.

Stefanie M. Light, of Sykesville, Md.; B.A. Troy State University, 1973. Information Technology.

Robert Edward Limmer, of Baltimore, Md.; B.S. Towson State University, 1979. Management.

You-Jyh Lin, of Taiwan, Republic of China; M.S. Yale University, 1984; M.Phil., 1985; Ph.D., 1987. Management.

David Christopher Little, of Baltimore, Md.; B.S.B.A. The University of Richmond, 1987. Management.

Susan Joan Locker, of Baltimore, Md.; B.S. Pennsylvania State University, 1978. Management.

Marilyn Gottlieb Loux, of Owings Mills, Md.; B.S. Towson State University, 1979. Management.

Gary N. Loveland, of Triangle, Va.; B.A. George Mason University, 1984. Information Technology.

Sharon Ann Lucich, of Baltimore, Md.; A.A. Essex Community College, 1983; B.S. Towson State University, 1986. Management.

David James Luksik, of St. Cloud, Minn.; B.S. Purdue University, 1987. Financial Management.

Andrew Scott Mackenzie, of Holmdel, N.J.; B.A. University of Richmond, 1987. Management.

Janet A. Macon, of Silver Spring, Md.; B.S. Morgan State University, 1976. Information Technology.

Teresa Marie Magness, of Belcamp, Md.; A.A. Harford Community College, 1980; B.S. University of Maryland, 1982. Management.

Roberta Jean Marie, of Frederick, Md.; B.S. University Maryland 1982; M.A. Hood College, 1982. Management.

Vincent R. Marinelli, of Greensburg, Pa.; B.S.I.E. Pennsylvania State University, 1984. Management.

Jeffrey Lee Marquina, of Columbia, Md.; A.A. Columbia Union College, 1985; B.S., 1985. Management.

Susan Mary Marzullo, of Reisterstown, Md.; B.A. Towson State University, 1982. Financial Management.

Carrye Elizabeth Massey, of Ellicott City, Md.; B.S. York College of Pennsylvania, 1985. Management.

James Lynn Matlack, of Wilmington, Del. Management.

Sarah Samantha May, of Alexandria, Va.; B.A. American University, 1982. Management.

Michael Christopher Xavier McGeady, of Baltimore, Md.; B.S. Denison University, 1984. Human Resource/Behavioral Management.

Mark Kevin McGill, of Philadelphia, Pa.; B.S.E. University of Pennsylvania, 1984. Management.

Jerry William McGinnis, of Catonsville, Md.; B.A. University of Delaware, 1974. Management.

Janet Louden McGlynn, of Baltimore, Md.; B.A. The Johns Hopkins University, 1975. Management.

Curtis Ralph McKnight, of Baltimore, Md.; B.A. University of Massachusetts, 1983. Management.

Thomas J. Meier, of Lehighton, Pa.; B.S. Kutztown State College, 1977. Management.

John Charles Donald Meise, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1979. Information Technology.

Karen Ann Metzgar, of Ellicott City, Md.; B.S.I.E. Pennsylvania State University, 1986. Management.

Karen A. Meyer, of Dayton, Ohio; B.S. University of Dayton, 1981. Management.

Onyewuchi Charles Mezu, of Baltimore, Md.; B.S. Morgan State University, 1981; M.B.A., 1983. Information Technology.

Dagmar Joeres Miller, of Baltimore, Md. Management.

June I. Miller, of Baltimore, Md.; B.S. Kings College, 1978. Management.

Sherri Lynn Miller-Smith, of York, Pa.; B.S. Millersville University, 1983. Information Technology.

Timothy Ian Miller, of Baltimore, Md.; B.A. Lycoming College, 1983. Management.

James Anthony Mirable, of Baltimore, Md.; B.S.E.E. Drexel University, 1987. Management.

Fred M. Mitzner, of Piscataway, N.J.; B.S. University of Massechusetts at Amherst, 1986. Management.

Kelly Potter Mobley, of Baltimore, Md.; B.A. Towson State University, 1984. Financial Management.

Marci Jean Montesi, of Hanover, Md.; B.S. University of Connecticut, 1986. Management.

Debra Slocum Morehouse, of Columbia, Md. Management.

Michael Earl Morlock, of Baltimore, Md.; A.A. Essex Community College, 1982; B.S. Towson State University, 1985. Information Technology.

Robert Louis Moss, of Silver Spring, Md.; B.S. University of Maryland, 1986. Management.

Johanne Koback Moyes, of Baltimore, Md.; B.S. University of Baltimore, 1981. Management.

Margaret Adele Mullin, of New Orleans, La.; A.A. Harford Community College, 1982; B.S. University of Maryland, 1987. Information Technology.

Dorothy Nehrling Murphy, of Baltimore, Md.; B.A. College of Notre Dame Maryland, 1984. Human Resource/Behavioral Management.

Margaret McCarthy Murphy, of Brookland, N.Y.; Ed.D. Rutgers University, 1973. Information Technology.

Patricia Ann Murphy, of Catonsville, Md.; A.A. Catonsville Community College, 1976; B.S. Frostburg State University, 1978. Management.

Gregory Kent Myers, of Baltimore, Md.; B.S.E.E. West Virginia Institute of Technology, 1986. Management.

Helen Dianne Neighbors, of Rockville, Md.; B.A. University of Texas, 1985. Management.

Tracy Anne Newman, of Baltimore, Md.; B.A. University of Delaware, 1982. Management.

Mildred M. Nohe, of Catonsville, Md.; B.S. Trenton State College, 1979. Information Technology.

Linda Noone, of Laurel, Md.; B.S. University of Maryland, 1985. Information Technology.

Sarah Ann Noone, of Baltimore, Md.; B.S.N. University of Maryland, 1983. Management.

Risa Leigh Nuetzel, of Fallston, Md.; B.S. Towson State University, 1985. Management.

Sharon Swann O'Brien, of Crofton, Md.; B.A.S.W. Salisbury State University, 1979. Information Technology.

Karen Gail Oldham, of Towson, Md.; B.S. Tufts University, 1966. Management.

Linda K. Olson, of Eldersburg, Md.; B.A. Southern Illinois University, 1964. Management.

Rusalinda Gail Orgill, of Oceana, W.Va.; B.A. Fairmont State College, 1985. Human Resource/Behavioral Management.

Linda Lou Ormsby, of Glen Arm, Md.; B.A. College of Notre Dame of Maryland, 1986. Financial Management.

Sandra J. Parker, of Denver, Colo.; B.S. Colorado State University, 1979; M.S., 1982. Information Technology.

Jason Edward Parrott, of Allentown, Pa.; B.S. North Carolina State University, 1986. Management.

Amy June Parsons, of Laurel, Md.; B.S. University of Maryland, 1988. Management.

Amit Chandubhal Patel, of Baltimore, Md.; B.S. University of Bombay, India, 1985; B.S. University of Maryland, 1987. Management.

Susann Lunsford Patton, of Eugene, Ore.; B.S. Oregon State University, 1981. Management.

James Anthony Pavik, of Dove Canyon, Calif.; B.S. Old Dominion University, 1979. Management.

Sharon Cowan Pearson, of Abingdon, Md.; B.S. State University of New York at Buffalo, 1973. Information Technology.

Gary David Pensinger, of Glen Burnie, Md.; B.S. University of Maryland, 1985. Management.

Michelle Malley Pienta, of Southfield, Mich.; B.S.N. Oakland University, 1981. Management.

Shalom Judah Polen, of Boston, Mass.; B.T.L. Ner Israel Rabbinical College, 1980; M.T.L., 1984. Management.

Keith Thomas Porter, of Abingdon, Md.; A.A.S. University of Toledo, 1984; B.E.T., 1986. Information Technology.

Mark Anthony Prego, of Auburn, N.Y.; B.S. York College of Pennsylvania, 1983. Management.

Mary Catherine Prisbe, of Baltimore, Md.; B.A. Towson State University, 1983. Management.

Sharon Hasena Pugh, of Silver Spring, Md.; B.S.I.E. Purdue University, 1977. Financial Management.

Kimberley Ann Pyles, of Sykesville, Md.; B.S. Lebanon Valley College, 1979. Information Technology.

Yvonne Cecelia Queen, of Baltimore, Md.; B.S. Morgan State University, 1982. Management.

Tate Oliver Redding, of Redding, Pa.; B.A. Dakota Wesleyan University, 1978. Information Technology.

Raymond Joseph Reed, Jr., of Baltimore, Md.; B.A. The Johns Hopkins University, 1981. Management.

Michael William Reed, of Kokomo, Ind.; B.S.E.E.T. Ohio Institute of Technology, 1982. Financial Management.

Katherine Almeda Rehmann, of Baltimore, Md.; B.S.N. Towson State University, 1981. Management.

Charlotte Dawn Reppy, of Rockville, Md.; B.A. West Virginia University, 1972. Information Technology.

John William Rich, of Arlington, Va.; B.A. St. Bonaventure University, 1975; M.L.S. Georgetown University, 1982. Financial Management.

Anita Fay Richardson, of Baltimore, Md.; B.S. Indiana University of Pennsylvania, 1982. Management.

Ulrike Linda Richardson, of Annapolis, Md.; B.A. Syracuse University, 1976; M.L. Catholic University of America, 1980. Management.

Jean Mieko Rieg, of Ellicott City, Md.; B.A. University of Hawaii, 1968. Information Technology.

Norbert Edwin Rieg, of Ellicott City, Md.; B.A. University of Maryland, 1975. Information Technology.

Kimberly Barbara Ripley, of Baltimore, Md.; B.S. Towson State University, 1983. Management.

Miguel A. Rivera, of San Juan, Puerto Rico; B.S. Purdue University, 1985. Management.

Mary Alice Robinson, of Silver Spring, Md.; A.A. Montgomery Community College, 1980; B.A. University of Maryland, 1983; Information Technology.

Ruth Ann Fedorchuk Robust, of Perry Hall, Md.; B.A. Goucher College, 1982. Financial Management.

John Michael Roche, of Pompano Beach, Florida; B.B.A. St. Bonaventure University, 1981. Information Technology.

Marguerite Bernel Rodden, of Silver Spring, Md.; B.A. Catholic University of America, 1982. Financial Management.

Belinda Roebuck, of New York, N.Y.; A.A.S. Harriman College, 1981; B.S. Fordham University, 1989. Management.

Christopher Watson Rogers, of Winnetka, Ill.; B.A. Southern Methodist University, 1985. Management.

Julie Ann Roling, of Laurel, Md. Management.

Stephen Goerge Romey, of Pasadena, Md.; B.A. Duke University, 1980. Information Technology.

Laurence Rosenberg, of Baltimore, Md.; B.S.E.E. University of Maryland, 1987. Management.

Michael Allan Rovinsky, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1986; M.T.L., 1989. Management.

Patricia M. Rowan, of Lutherville, Md.; B.S. Towson State University, 1978. Management.

Linda Kay Roydhouse, of Baltimore, Md.; B.S.N. University of Maryland, 1985. Management.

Timothy Peter Rubalcaba, of Butler, Ind.; B.A. Purdue University, 1985. Management.

Carol Ann Rubino, of Baltimore, Md.; B.A. The Johns Hopkins University, 1979. Management.

Patricia Ann Rubino, of Towson, Md.; B.S. Towson State University, 1984. Management.

Martha Jane Rudzki, of Pittsburgh, Pa.; B.A. Hood College, 1986. Management.

William David Samuels, of Sparks, Md.; B.A. St. Lawrence University, 1976. Financial Management.

Nora B. Sarkahian, of Catonsville, Md.; B.S.E.E. Drexel University, 1987. Management.

Robert Michael Sarnecki, of Baltimore, Md.; B.S. Mount Saint Mary's College, 1984. Information Technology.

Christopher John Sawicki, of Towson, Md.; B.A. Western Maryland College, 1988. Information Technology.

Carol Lee Schulte, of Baltimore, Md.; B.S. University of Maryland, 1973. Management.

Ruth Meisenhelder Seaby, of Baltimore, Md.; B.S. Towson State University, 1976. Management.

Nancy Patricia Seifert, of Baltimore, Md.; A.A. Essex Community College, 1979; B.S.N. University of Maryland, 1986. Management.

Madeleine Ann Shea, of Baltimore, Md.; B.A. Trinity College, 1982. Management.

Herbert Louis Shemer, of Owings Mills, Md.; B.A. Western Maryland College, 1985; M.P.A. University of Baltimore, 1987. Information Technology.

Caroline Teubert Shepherd, of Parkville, Md.; B.S. West Virginia University, 1977. Management.

Kathleen Tewey Sheridan, of Ellicott City, Md.; B.S. St. Mary's College of Maryland, 1982. Management.

Juliana Marie Shiminski, of Mayaguez, Puerto Rico; B.S. University of Puerto Rico, 1987. Management.

Cynthia Regina Shipley, of Washington, D.C.; B.S. Tuskegee University, 1977. Management.

Glennor Loy Shirley, of Columbia, Md. Human Resource/Behavioral Management.

Charlene Fleming Sibler, of Baltimore, Md.; B.B.A. Loyola College, 1984. Management.

Robert Lee Sinclair, of Baltimore, Md. Information Technology.

Arthur J. Slusark, of Fallston, Md.; B.A. Duquesne University, 1978. Management.

Barbara Stauch Slusher, of Baltimore, Md.; B.S. Dickinson College, 1986. Management.

Charles Samuel Smith, of Columbia, Md. Information Technology.

Dorothy McGee Smith, of Columbia, Md.; B.A. University of Maryland, 1973. Management.

Robert Louis Smith, Jr., of Randallstown, Md. Public Administration.

Sandra Lee Smith, of Baltimore, Md.; B.A. Western Maryland College, 1987. Information Technology.

Sharon Lene Smith-Bell, of Randallstown, Md. Management.

I. Michael Snyder, of Silver Spring, Md.; B.S. University of Maryland, 1978. Information Technology.

Michele Marie Spaulding, of Catonsville, Md.; B.S. Rhode Island College, 1983. Information Technology.

Nancy Doyle Spicer, of Baltimore, Md.; B.A. Loyola College, 1983. Management.

Tressa Bailey Springmann, of Columbia, Md.; B.A. St. Mary's College of Maryland, 1985. Information Technology.

Vimal K. Srivastava, of Germantown, Md.; M.S. St. Johns University, 1986. Management.

Tracey Anne Steinberg, of Edgewater, Md.; B.S. Virginia Technical Institute and State University, 1988. Financial Management.

Robert Oran Stephenson, of Bel Air, Md.; A.A. Harford Community College, 1983; B.S. University of Baltimore, 1985. Financial Management.

Kenneth David Sterner, of Dundalk, Md.; B.A. Western Maryland College, 1978. Information Technology.

Joseph Edward Stevenson, of Silver Spring, Md.; B.S. Westminster College, 1986. Management.

Joanne Marie Stine, of Columbia, Md.; B.S. University of Maryland, 1987. Management.

Kathleen Scott Stover, of Falls Church, Va.; B.A. College of William and Mary, 1976. Management.

David Gerard Strappelli, of Baltimore, Md.; B.S. Towson State University, 1987. Management.

L. Elaine Stricklett, of Baltimore, Md.; B.A. Sterling College, 1965. Information Technology.

Debra Stevens Strucko, of Sparks, Md.; B.S. University of Maryland, 1970. Management.

Joan Marie Sullivan, of Glen Burnie, Md.; A.A. Anne Arundel Community College, 1976; B.S.N. College of Notre Dame of Maryland, 1988. Human Resource/Behavioral Management.

Koset Surakomol, of Bloomfield Hills, Mi.; B.A. Kalamazoo College, 1987. Management.

Deborah Ann Szrom, of Baltimore, Md.; B.S. Towson State University, 1979. Management.

Mark Joseph Tabisz, of Baltimore, Md.; B.S. Towson State University, 1986. Information Technology.

Imade Wiracita Tantra, of Elmhurst, N.Y.; B.A. State University of New York at Binghamton, 1987. Financial Management.

Theresa Bernadette Thomas, of Silver Spring, Md.; B.M.Ed. Shenandoah College and Conservatory of Music, 1975. Management.

Steven Scott Thrush, of Bel Air, Md.; B.B.A. Loyola College, 1985. Management.

Laura Marie Tillman, of Pasadena, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1984. Management.

Colleen Patricia Tressler, of Baltimore, Md.; B.S. University of Maryland, 1983. Management.

Peter Paul Tridone IV, of Baltimore, Md.; B.S. Towson State University, 1987. Management.

Guochuan Tsai, of Hsinchu, Taiwan; M.D. National YangMing Medical College, Taipei, 1984. Management.

Richard John Tucci, of New York, N.Y.; B.E.C.E. City College of New York, 1972; M.E.C.E., 1975. Management.

Michael Douglas Tucker, of Baltimore, Md.; B.B.A. Howard University, 1978. Management.

Larry Evans Tune, of Richmond, Va.; B.A. Cornell University, 1971; M.D. University of Virginia, 1975. Management.

David Ralph Urech, of Ellicott City, Md.; B.S. University of Maryland, 1985. Management.

Dianna A. Usi, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1986. Human Resource/Behavioral Management.

Patricia Lemmon van Deursen, of Baltimore, Md.; A.A. Community College of Baltimore, 1972; B.S. The Johns Hopkins University, 1986.

Guy Jack Van Tiggelen, of York, Pa.; B.A. Loyola College, 1983. Management.

F. Faith Vance, of Gaithersburg, Md.; B.A. Queens University, 1966. Information Technology.

Brian M. Varney, of Baltimore, Md.; B.B.A. University of Notre Dame, 1980. Financial Management.

Jean Ann Varrato, of Laurel, Md.; B.S. Marywood College, 1982. Human Resource/Behavioral Management.

Vicki Killby Via, of Laurel, Md.; A.S. J. Sargent Reynolds Community College, 1981; B.S. West Virginia State College, 1985. Management.

David Vicars, Jr., of Baltimore, Md.; B.S. The Johns Hopkins University, 1990. Information Technology.

Jody Lynn Vilensky, of Wilkes Barre, Pa.; B.S. University of Pittsburgh, 1986. Information Technology.

Patricia DeLorenzo Wafer, of Columbia, MD.; B.A. Loyola College, 1985. Management.

Mark Thomas Wajer, of Perry Hall, Md.; B.S. Loyola College, 1970. Management.

William Emory Wallace, of Ellicott City, Md.; B.S. Towson State University, 1985. Management.

Martina Marie Waluk-Gaertner, of New York, N.Y.; B.A. The Johns Hopkins University, 1987. Management.

Loren A. Wasson, of Columbia, Md.; B.S. Auburn University, 1978. Financial Management.

Beverly Schlein Welty, of Ellicott City, Md.; B.S. George Mason University, 1982. Management.

Douglas Gregory Wernecke, of Towson, Md.; B.S. Towson State University, 1981. Management.

Lisa Ann Wetzel, of Timonium, Md.; B.A. Franklin and Marshall College, 1985. Information Technology.

Michael Howard Whelan, of Hunt Valley, Md.; A.A. Catonsville Community College, 1977; B.S. Towson State University, 1980. Information Technology.

Cindy D. White, of Baltimore, Md.; B.S. Towson State University, 1982. Management.

Jeffrey Charles White, of Bowie, Md.; B.S. West Virginia University, 1985. Management.

Amy Marie Wilcox, of Avon, N.Y.; A.S. Paul Smiths College, 1982; B.S. Michigan State University, 1988. Management.

Paula J. Wilde, of Baltimore, Md.; B.S. Duquesne University,1987. Management.

Jeffrey Alan Wilhide, of Finksburg, Md.; B.A. Western Maryland College, 1978. Information Technology.

Emily Lewis Wilkinson, of Baltimore, Md.; B.S. University of Virginia, 1981. Management.

Joan H. Williams, of Baltimore, Md.; B.A. Pennsylvania State University, 1983. Human Resource/Behavioral Management.

Terry Lovis Williams, of Jacksonville, Fla.; B.S. Indiana University, 1974. Information Technology.

Thea N. Williams, of Baltimore, Md. Management.

Diane Freeman Wilson, of Baltimore, Md.; B.A. Goucher College, 1980. Information Technology.

Bradley Ford Winslow, of Baltimore, Md.; B.S. Salisbury State University, 1988. Management.

Catherine Mary Wirts, of Columbia, Md.; B.S. Wheeling Jesuit College, 1988. Management.

Jay Timothy Wissmann, of Baltimore, Md.; B.A. Towson State University, 1983. Information Technology.

Diane Wojciechowski, of Bloomington, Ind.; B.A. Indiana University, 1978. Management.

William Barry Wood, Jr., of Middletown, Md.; A.A. Hagerstown Junior College, 1984; B.S. Towson State University, 1987. Management.

Beth A. Woodring, of Lattimer, Pa.; B.A. Bucknell University, 1983. Information Technology.

Michelle Judith Wright, of Baltimore, Md.; B.A. University of Maryland, 1986. Financial Management.

Susan Klein Wright, of Annapolis, Md.; B.S. The Johns Hopkins University, 1988. Management.

Christine Louise Wruck, of Columbia, Md.; B.A. College of William and Mary, 1984. Human Resource/Behavioral Management.

Donald M. Wynne, of Lyndhurst, N.J.; B.A. Rutgers University, 1986. Human Resource/Behavioral Management.

Sherry Lynn Young, of Columbia, Md.; B.S.Ed. South West Missouri State College, 1980. Management.

David A. Zajac, of Lititz, Pa.; B.A. St. Charles Seminary College, 1985. Financial Management.

Frank John Zariemba, Jr., of Abingdon, Md.; B.S.C.E. University of Delaware, 1986. Management.

Da-Ning Zhang, of Germantown, Md.; B.S. Beijing Normal University, 1981; M.S. University of Maryland, 1984. Financial Management.

William Joseph Ziegler, Jr., of Columbia, Md.; B.A. St. Mary's College of Maryland, 1985. Management.

Robert Jay Zoerman, Jr., of Grand Rapids, Mich.; B.S. The Johns Hopkins University. Management.

## *Certificates of Advanced Study in The School of Continuing Studies*

Thelma Lee Carter, of Baltimore, Md.; M.S. The Johns Hopkins University, 1981.

Robert G. Eliason, of Chestertown, Md.; B.A. High Point College, 1980; M.S. Wilmington College, 1987.

Thomas Mark Fredricksen, of Mt. Holly Springs, Pa.; M.S. Shippensburg University, 1988.

Marlene Porter-Blair, of Columbia, Md.; B.S. University of Maryland, Baltimore County, 1977; M.S. The Johns Hopkins University, 1983.

## *Masters of Science in The School of Nursing*

Stella Aguinaga, of Rio De Janeiro, Brazil; B.S.N., Federal University of Rio De Janeiro, 1986. *Knowledge of and Attitudes Toward Smoking Cessation Among Urban African Americans*

Martha Sandra Alvaran, of Ellicott City, Maryland; B.S.N., University of Maryland at Baltimore, 1988. *Infection Control in Longterm Care Facilities*

Alice M. Dunphy, of Lutherville, Maryland; B.S.N., University of Delaware, 1986. *Differences in Nursing Care Needs Between HIV+ Homosexuals-Bisexuals and HIV+ Drug Users in the Inpatient Setting*

Sandra Armella Pezzoli, of Ellicott City, Maryland; B.S.N., Indiana University, 1985. *Congruence Between Self-Rated Health and Objective Health Measures in HIV+ Patients*

Lisa Carroll Radebaugh, of Towson, Maryland; B.S.N., University of Maryland at Baltimore, 1983. *Psychosocial Aspects of Practicing Clean Intermittent Self-Catheterization*

Laura Sheely, of Glen Burnie, Maryland; B.S.N., Georgetown University, 1984. *Factors Affecting Sleep in Hospitalized Oncology Patients*

Mary Ann White, of Raleigh, North Carolina; B.S.N., University of North Carolina, 1984. *Breast Self-examination in Elderly Women: Attitudes, Knowledge and Barriers*

## *Graduate Performance Diplomas in The Peabody Conservatory of Music*

Cheryl Lynn Johnson, of Crystal Lake, Ill.; B.M. University of Illinois, 1986; M.M. University of Illinois, 1987. Voice.

Trent Xavier Johnson, of Clinton, Md.; B.M. The Johns Hopkins University, 1989. Organ.

Sandra Murray, of Chicoutimi, Quebec, Canada; Dipl. Conservatoire de Musique du Quebec, 1987. Piano.

Bryan Russell Verhoye, of San Diego, Calif.; B.M. University of Southern California, 1983. Piano.

## *Masters of Music in The Peabody Conservatory of Music*

Xak Bjerken, of Eugene, Ore.; B.A. University of California at Los Angeles, 1989. Piano.

Robin Renee Bourguignon, of New Gretna, N.J.; B.M. Westminster Choir College, 1986. Voice.

Catherine Edmonds Bradford, of Ellicott City, Md.; B.A. Mary Washington College, 1986. Music Education.

Rebecca Jane Broberg, of Swarthmore, Pa.; B.A. University of Pennsylvania, 1988. Voice.

Brigitte Capdeville, of Los Angeles, Calif.; B.M. University of Michigan, 1989. Piano.

Lisa Maria Cella, of Holliston, Mass.; B.A. Syracuse University, 1988. Flute.

Michael Joseph Center, of Seattle, Wash.; B.M. New England Conservatory, 1989. Violoncello.

Allison Beth Charney, of Los Angeles, Calif.; B.A. Harvard University, 1989. Voice.

YunSoo Cho, of Seoul, Korea; B.M. Seoul National University, 1989. Piano.

Hea-Soon Chung, of Seoul, Korea; B.M. Ewha Womans University, 1983. Harp.

Christian Colberg Becerra, of San Juan, Puerto Rico; B.M. The Johns Hopkins University, 1989. Violin.

Charles Michael Jay Demuynck, of Dawson Creek, British Columbia, Canada; B.M. University of Toronto, 1989. Conducting.

Genevieve Marie Eichman, of Trempealeau, Wis.; B.M. Trinity University at San Antonio, 1989. Flute.

Xiao-Xing Geng, of Shanghai, Peoples Republic of China; B.M. University of Texas at Austin, 1989. Piano.

Jennifer Leigh Hervey, of Gresham, Ore.; B.M. University of Oregon, 1989. Percussion.

Steven Campbell Hilmy, of Aberdeen, Scotland; B.A. George Washington University, 1984. Composition and Electronic and Computer Music.

Kerri Lyn Hyatt, of Grantsburg, Wis.; B.M. Oberlin Conservatory, 1988; M.M. The Johns Hopkins University, 1990. Ensemble Arts.

Elizabeth Hart IrvinKolker, of Baltimore, Md.; B.M. Eastman School of Music, 1968. Voice.

Patricia Anne Johnson, of Richland Center, Wis.; B.M. Lawrence University, 1986. Percussion.

Lori Anne Kaufman, of Franklin, Mich.; B.M. University of Southern California, 1989. Piano.

Amy Frances Klosterman, of Fargo, N.D.; B.M. Michigan State, 1988. Piano.

Lynn F. Kowal, of Baltimore, Md.; B.M. Virginia Commonwealth University School of the Arts, 1989. Electronic and Computer Music.

Mary Elizabeth Kraatz, of St. Catherine, Ontario, Canada; B.M. The Johns Hopkins University, 1989. Flute.

Peter Michael Krask, of Frederick, Md.; B.A. University of Maryland, 1988. Music Criticism.

Hea Kyung Lee, of Seoul, Korea; B.F.A. United States International University, 1983. Voice.

Jennifer Leshnower, of Odessa, Texas; B.M. Rice University, 1989. Violin.

Colleen Marie MacDonald, of Cincinnati, Ohio; B.M. Cincinnati Conservatory of Music, 1988. Trombone.

Mark Mandarano, of New Rochelle, N.Y.; B.A. Cornell University, 1987. Conducting.

Steven L. Marking, of La Crosse, Wis.; B.M. Viterbo College, 1986. Voice.

Rachel Matthews, of WinstonSalem, N.C.; B.M. Oberlin Conservatory, 1989. Piano.

Mark Mazullo, of Doylestown, Pa.; B.M. Catholic University of America, 1989. Music History.

Barbara Ann Mountain, of Rockville, Md.; B.A. Case Western Reserve University, 1986. Voice.

Nam Yeung, of Tsuen Wan, Hong Kong; Dipl. Hong Kong Academy for Performing Arts, 1988. Piano.

Louis Heinz Nemec, of Miami, Fla.; B.S. Geneva College, 1988; B.A. Geneva College, 1988. Music Education.

Juha Matti Ojala, of Oulu, Finland; Dipl. Municipal Conservatory in Oulu, 1985; M.M. Sibelius Academy, 1988. Piano.

Andrew Edward Palmer, of Annandale, Va.; B.M. James Madison University, 1989. Double Bass.

Clara Jooyoung Park, of Athens, Ga.; B.M. The Johns Hopkins University, 1989. Piano.

Sukhan Poon, of Tai Wai Shatin, Hong Kong; B.M. University of Portland, 1989. Music Education.

Junghye Ra, of Seoul, Korea; B.M. The Johns Hopkins University, 1988. Piano.

Angela Lee Raspa, of Lexington Park, Md.; A.B. Goucher College, 1986. Electronic and Computer Music.

Lisa L. Rehwoldt, of Santa Barbara, Calif.; B.M. Oberlin College, 1987. Piano.

Shari Allison Rosen, of Old Bethpage, N.Y.; B.M. The Johns Hopkins University, 1988. Voice.

Richard Steven Roth, of Phoenix, Ariz.; B.M. Arizona State, 1984; M.M. The Johns Hopkins University, 1990. Electronic and Computer Music.

Keh-Shu Shen, of Taipei, Taiwan, Republic of China; B.A. National Taiwan University, 1988. Violin.

William J. Simms, of Bethesda, Md.; B.M. College of Wooster, 1988. Guitar.

Jen-Hsiu Su, of Taipei, Taiwan, Republic of China; B.A. Chinese Culture University, 1987. Piano.

Laura Ellen Teeple, of Niles, Mich.; B.S. Western Michigan University, 1988. Voice.

Bonnie Louise Viens, of Stafford Springs, Conn.; B.A. University of Notre Dame, 1988; M.M. The Johns Hopkins University, 1990. Music History.

Helen Rachel Weems, of Newtonia, Mo.; B.A. School of the Ozarks, 1986. Music History.

Stephen Kent Wilber, of Salisbury Center, N.Y.; B.M. Oberlin Conservatory, 1989. Piano.

Meejung Yoo, of Richmond, Va.; B.M. The Johns Hopkins University, 1989. Piano.

## *Artist Diplomas in The Peabody Conservatory of Music*

Barteld Douwe Bosma, of Utrecht, The Netherlands; akte B. Arnhem Conservatory of Music, 1984; M.M. The Johns Hopkins University, 1987. Guitar.

Jeffrey Lynn Fahnestock, of Mt. Holly Springs, Pa.; B.M. Eastman School of Music, 1983; M.M. Eastman School of Music, 1987. Voice.

Deborah Anne Fleisher, of New York, N.Y.; Dipl. Curtis Institute of Music, 1976. Harp.

Choong Mo Kang, of ChunAn City, Korea; B.A., Seoul National University, 1983; M.M., San Francisco Conservatory of Music, 1986. Piano.

Kihoon Sung, of Daegu, Korea; B.M. Seoul National University, 1983; M.M. Seoul National University, 1985. Voice.

Pin Fei Tang, of Tianjin, Peoples Republic of China; B.M. Fine Arts College of Peking, 1985; M.M. University of Illinois at UrbanaChampaign, 1988. Violoncello.

## *Masters of Science in The School of Hygiene and Public Health*

Abbas Mohammed Hawwari, of Sabastia-Nablus, Jordan; B.S. University of Arizona, 1985. Immunology and Infectious Diseases. *Human Papiollomavirus Infections in a Sexually Transmitted Disease Clinic Population in Baltimore.*

Jennifer Jinot, of Sudbury, Canada; B.A. University of Waterloo, 1985. Environmental Health Sciences. *An Investigation of the Potential Involvement of Interleukin-1 in Ozone-Induced Airway Hyperresponsiveness and Inflammation.*

Proscovia Lubega, of Tanzania, East Africa; M.B.Ch.B. Makerere University, 1984. *Immunology and Infectious Diseases. Cloning a* Plasmodium berghei *Gene Encoding a Heat-Shock Related Stress Protein.*

Doreen Doi Ling Tam, of Hacienda Heights, Calif.; B.S. University of California at Irvine, 1987. Biostatistics. *Identifying Subtypes of Schizophrenia by Assessing the Risk for Psychopathology in the Relatives: An Application of the Cox Regression Model on Dependent Data.*

Zhen Nora Tu, of Davis, Calif.; B.S. University of California at Davis, 1988. Biostatistics. *Logistic Discriminant Test as Applied to Censored Data.*

Joan L. Valentine, of Baltimore, Md.; B.S. Pennsylvania State University, 1979. *Immunology and Infectious Diseases. Detection of* Helicobacter pylori *Using DNA Hybridization Techniques.*

Mingwei Xu, of Shanghai, People's Republic of China; B.S. East China Normal University, 1987. Population Dynamics. *Kinship Dynamics in Nonstable Population Models.*

## *Masters of Health Science in the School of Hygiene and Public Health*

Laura Bani Cesano, of Buenos Aires, Argentina; B.S. Westmont College, 1988. International Health.

Katherine Miller Bass, of Baltimore, Md.; B.A. Duke University, 1979; M.D., 1983. Epidemiology. Chronic Disease Epidemiology.

Nancy Montgomery Baum, of Alexandria, Va.; B.S.N. The University of Michigan, 1987. Health Policy and Management. Health Finance and Management.

Steven Eugene Benner, of Baltimore, Md.; B.A. The University of Chicago, 1981; M.D. The University of Missouri, 1985. Epidemiology. Clinical Epidemiology.

Debra Susan Bernstein, of Hatboro, Pa.; B.S. The George Washington University, 1986. Health Policy and Management. Health Finance and Management.

Catherine Elizabeth Cartwright, of Glen Ellyn, Ill.; B.A. Central University of Iowa, 1986. Environmental Health Sciences.

Marion Ceraso, of Baltimore, Md.; B.A. Rutgers University, 1984. Health Policy and Management. Behavioral Sciences and Health Education.

Cheré Monique Chase, of Glen Ridge, N.J.; B.A. Brown University, 1988. Health Policy and Management. Health Finance and Management.

Wen-Nuan Cheng, of Taipei, Republic of China; B.S. National Taiwan University, 1987. Mental Hygiene.

Howard Douglas Chilcoat, of Bel Air, Md.; B.A. Harverford College, 1980; M.S. The Johns Hopkins University, 1986. Biostatistics.

Demetra Vasilios Collia, of Bowie, Md.; B.A. Hope College, 1978; M.S. Western Michigan University, 1983. Biostatistics.

Mauricio Concha, of Medellin, Colombia; M.D. Institute of Health Sciences, 1986. Epidemiology. Infectious Disease Epidemiology.

Deanna Mae Crouse, of Silver Spring, Md.; A.S. Graham College, 1974; B.A. University of Maryland, 1985. International Health.

Rosa María Crum, of Baltimore, Md.; B.A. Barnard College, 1979; M.D. Harvard University, 1985. Epidemiology. Clinical Epidemiology.

Jane Harriet Forman, of Cambridge, Mass.; B.A. Harvard University, 1985. Health Policy and Management. Health Finance and Management.

Francisco Franco-Marina, of Tuxtla, Mexico; M.D. National Autonomous University of Mexico, 1984; M.P.H. School of Public Health of Mexico, 1985; M.Sc., 1988. Epidemiology. Clinical Epidemiology.

Deborah Anne Galaska, of Prattville, Ala.; B.S.C.E. Massachusetts Institute of Technology, 1981; M.P.A. University of Oklahoma, 1984. Environmental Health Sciences.

Shannon Marie Gallivan, of Bergen, N.Y.; B.S. Cornell University, 1989. Health Policy and Management. Health Finance and Management.

Kathleen Ann Graham, of Baltimore, Md.; B.A. University of Pittsburgh, 1980; M.S.W. The University of Michigan, 1988. Maternal and Child Health.

Kate Hanley, of Providence, R.I.; B.A. Brown University, 1987. Environmental Health Sciences.

Teti Herawati, of Jakarta, Indonesia; Sarjana, Bogor Agricultural University, 1983. Population Dynamics.

Dana Michelle Hotra, of Downey, Calif.; B.A. University of California at Santa Barbara, 1986. Maternal and Child Health.

John David Hundt, of Lindsay, Texas; B.B.A. Texas A&M University, 1985. Health Policy and Management. Health Finance and Management.

Lenna Babigian Janick, of Columbia, Md.; B.A. University of Rochester, 1987. Mental Hygiene.

Amy Martha Kraczkowsky, of New Britain, Conn.; B.A. Skidmore College, 1989. Health Policy and Management. Health Finance and Management.

Joshua Norman Liberman, of Baltimore, Md.; B.A. The Johns Hopkins University, 1989. Epidemiology. Occupational and Environmental Epidemiology.

Marialena Luperini, of Towson, Md.; B.S. University of Delaware, 1987. Health Policy and Management. Health Finance and Management.

Ninan Ajoy Mathew, of Cincinnati, Ohio; B.A. Carleton College, 1988. International Health.

Elizabeth Alice Matthews, of Newton Center, Mass.; B.S. Boston College, 1982. International Health.

Mark Allen Melanson, of Joppa, Md.; B.S. Dickinson College, 1983. Environmental Health Sciences.

Sandra Miscovich, of San Diego, Calif.; B.A. University of California at San Diego, 1988. International Health.

Mira Mitra, of Mirpur, Bangladesh; B.A. Dhaka University, 1975; M.A., 1977. Population Dynamics.

Alfredo Morabia, of Geneva, Switzerland; M.D. Geneva University, 1978; M.P.H. The Johns Hopkins University, 1987; Ph.D., 1989. Biostatistics.

Carles Muntaner, of Barcelona, Catalonia, Spain; M.D. University of Barcelona, 1981; Ph.D. Autonomous University of Barcelona, 1985. Mental Hygiene.

Margaret Jessemin Nagel, of Baltimore, Md.; B.S. Cornell University, 1985. Health Policy and Management. Health Finance and Management.

Emily Shapiro Navetta, of Columbia, Md.; B.A. Brandeis University, 1989. Health Policy and Management. Health Finance and Management.

Robert Edward Patterson, III, of Baltimore, Md.; B.A. Dartmouth College, 1985. M.A. The Johns Hopkins University, 1990. International Health.

Thomas V. Perneger, of Geneva, Switzerland; M.D. University of Geneva, 1983. Biostatistics.

Charles Brace Reuland, of Cincinnati, Ohio; B.A. The University of Michigan, 1988. Health Policy and Management. Health Finance and Management.

John Ruthinoski, of Aquebogue, N.Y.; B.S. Cornell University, 1989. Health Policy and Management. Behavioral Sciences and Health Education.

Ann Rainey Sherpick, of Farmington, Conn.; B.A. Tufts University, 1986. Population Dynamics.

Nicole Sharon Simmons, of Chevy Chase, Md.; B.A. Harvard University, 1983. Health Policy and Management. Health Policy.

Ilene Sharon Speizer, of Cambridge, Mass.; B.A. Washington University, 1987. Population Dynamics.

Sheryl A. Starnes, of Denver, N.C.; B.A. University of North Carolina, 1988. International Health.

Noriko Takahashi, of Yokohama, Japan; M.A. Tsuda College, 1989. Population Dynamics.

Jingyan Yang, of Chengdu, People's Republic of China; B.A. Sichuan Institute of Foreign Languages, 1984. Population Dynamics.

## *Masters of Public Health in The School of Hygiene and Public Health*

Neil Meier Abel, of Rockville, Md.; B.S.P. Kansas University, 1973; M.B.A. St. John's University, 1981; M.S. The George Washington University, 1985.

Damiano Dante Cesare Abeni, of Rome, Italy; M.D. University of Milan, 1987.

Sandro Accorsi, of Bologna, Italy; M.D. University of Bologna, 1981.

Ingrid Aija Adamsons, of New York, N.Y.; B.A., Brown University, 1981; M.D., 1984.

Faruque Ahmed, of Dhaka, Bangladesh; M.B.B.S., Dhaka Medical College, 1982.

Douglas Ray Akin, of Pueblo, Colo.; B.S. Southern Colorado State College, 1968.

Barbara Ellyn Aliza, of Chevy Chase, Md.; B.A. University of California at Los Angeles, 1967; M.A. The Catholic University of America, 1975.

Lucia Alonso, of Madrid, Spain; M.D. University Complutense at Madrid, 1986.

Tatsuya Aoki, of Masuda, Japan; M.D. Yamaguchi University, 1984.

Shams El Arifeen, of Dhaka, Bangladesh; M.B.B.S. Dhaka University, 1983.

Dorte Arnbjerg, of Aarhus, Denmark; D.D.S. Royal Dental College at Aarhus, 1985; Ph.D., 1990.

Enias Baganizi, of Kibuye, Rwanda; B.A. National University of Rwanda, 1985; M.D., 1988.

Byron Paul Bailey, of Sacramento, Calif.; B.S. Wright State University, 1982.

Cynthia Marlo Baird, of Moorestown, N.J.; B.A. Mid America Nazarene College, 1981; M.D. Texas A&M University, 1988.

Lewellys Franklin Barker, of Chevy Chase, Md.; B.A. Princeton University, 1955; M.D. The Johns Hopkins University, 1959.

Peggy Ripley Barker, of Rockville, Md.; B.A. Berea College, 1969.

Robert William Beardall, of Alexandria, Va.; B.S. College of Charleston, 1979; M.D. Medical University of South Carolina, 1983.

Susan Ellen Beekmann, of Baltimore, Md.; B.S. Albright College, 1986.

Christopher Charles Beyrer, of East Islip, N.Y.; B.A. Hobart College, 1981; M.D. State University of New York at Brooklyn, 1988.

Penny Ellen Borenstein, of North Bellmore, N.Y.; B.S. Cornell University, 1982; M.D. State University of New York Health Science Center, 1988.

Manon Antoinette Boudreault, of Baltimore, Md.; B.S. Central Michigan University, 1983.

Ronald Justin Bowerman, of Alameda, Calif.; B.S. University of California at Davis, 1973; M.D. Oral Roberts University, 1987.

Ross Joseph Brechner, of Evergreen, Colo.; B.A. Princeton University, 1962; M.S. Tulane University, 1967; M.D., 1969. .

Aumphorpun Buavirat, of Bangkok, Thailand; B.Ed. Sri Nakharinwiraot University, 1977; M.Ed. Chulalongkorn University, 1979.

Patricia Owen Buehler, of Park Forest, Ill.; B.A. The University of Chicago, 1986; M.D. The Johns Hopkins University, 1990.

Earl James Campazzi, of Water Mill, N.Y.; B.A. The Johns Hopkins University, 1984; M.H.S., 1986; M.D. University of Pittsburgh, 1989.

Luis Hernan Caris, of Santiago, Chile; M.D. University of Chile, 1979.

Richard Myron Carter, of Phoenix, Ariz.; B.S. Arizona State University, 1975; D.O. North Texas State University, 1981.

Susan Ann Carter, of Margate, Fla.; B.S.N. Olivet Nazarene University, 1977.

Frank Edward Cefali, of Washington, D.C.; B.S.N. Gwynedd Mercy College, 1985.

Karen Rossi Charron, of Bel Air, Md.; B.S.N. Towson State University, 1985.

Carol Cistola, of Juneau, Alaska; B.S. Pennsylvania State University, 1969; M.D. Medical College of Pennsylvania, 1975.

Marianne Cloeren, of Havre de Grace, Md.; B.A. University of Pennsylvania, 1980; M.D. Temple University, 1987.

Susan E. Coffin, of Baltimore, Md.; B.A. Williams College, 1983; M.D. University of Vermont, 1987.

Barbara Ann Collins, of Wellington, New Zealand; B.A. University of Canterbury, 1980.

Karen Scott Collins, of Commack, N.Y.; B.A. Harvard University, 1982; M.D. Cornell University, 1986.

Carolyn Ann Contee-Lassiter, of Watchung, N.J.; B.A. Howard University, 1969; M.Ed., 1974; D.D.S., 1981.

Peter Cowley, of Austin, Texas; B.A. University of Texas, 1983; M.D. Baylor College of Medicine, 1988.

Maria Teresa Cuchi, of Zaragoza, Spain; M.D. University of Zaragoza, 1981.

Paloma Cuchi, of Washington, D.C.; M.D. University of Zaragoza, 1986.

Susan Dona Cummings, of Owings Mills, Md.; B.S.N. Duke University, 1981.

Emmett Thomas Cunningham, Jr., of Philadelphia, Pa.; B.A. The Johns Hopkins University, 1983; Ph.D. University of California at San Diego, 1989; M.D. The Johns Hopkins University, 1990.

Sally M. D'Angelo, of Denver, Colo.; B.S.N. Arizona State University, 1977; M.D. University of Colorado, 1987.

Laura Setliff Davidson, of Marion, Va.; B.S. Virginia Commonwealth University, 1978; M.S. 1978.

Andrea Maria Demont, of Heidelberg, Germany; M.D. University of Ulm, 1985.

Janice Gwen Derrickson, of Towson, Md.; B.S. University of Florida, 1980; M.S. The Johns Hopkins University, 1985; Ed.D., 1989.

Margaret Mary Diebel, of St. Paul, Minn.; B.A. Metropolitan State University, 1990.

Ana Victoria Diez Roux, of Buenos Aires, Argentina; M.D. University of Buenos Aires, 1985.

Michele Lynn Dreyfuss, of Washington, D.C.; B.A. Stanford University, 1987.

Faye Drummond, of Bethesda, Md.; B.A. California State College at Los Angeles, 1969; M.A. The George Washington University, 1977.

Cherry E. Faile, of Nalerigu, Ghana; B.S.N. Medical College of Georgia, 1978.

John Joseph Farley, Jr., of Verona, N.J.; B.A. Drew University, 1977; M.D The George Washington University, 1981.

Brian Hershel Feighner, of Houston, Texas; B.A. University of Virginia, 1979; M.D. Baylor College of Medicine, 1983.

Violet Daphne Forsythe-Duke, of Port of Spain, Trinidad; M.B.B.S. University of the West Indies, 1968.

Ciro Franco, of Ercolano, Italy; M.D. University of Naples, 1980.

Paula Catherine Franklin, of Washington, D.C.; M.B.B.S. The Medical College of St. Bartholomew's Hospital, 1983.

Robert Paul Friedlaender, of Gainesville, Fla.; B.S. The University of Michigan, 1970; M.D. Wayne State University, 1973.

Paul Alan Gaist, of North Potomac, Md.; B.A. University of California at Berkeley, 1980; B.A., 1980.

Joseph John Gallo, of New Rochelle, N.Y.; B.S. Fordham University, 1978; M.D. Pennsylvania State University, 1982.

Paula Gordinier Gardner, of Portland, Ore.; B.A. Lawrence University, 1975.

Yves Mériadec Marie Genevier, of Poitiers, France; M.D. Tours University, 1981.

Grace Maria Gianturco, of Falls Church, Va.; B.S.N. University of Virginia, 1984.

Stephen Charles Gieser, of East Haven, Conn.; B.S. Wheaton College, 1982; M.D. University of Illinois, 1986.

Irene Driscol Goepp, of Boston, Mass.; B.S. Lesley College, 1985.

Gary Bruce Green, of New York, N.Y.; B.S. State University of New York at Stonybrook, 1983; M.D. New York University, 1987.

Richard David Guerin, of San Antonio, Texas; B.E.S. The Johns Hopkins University, 1970; D.D.S. University of Maryland, 1976; M.S. The George Washington University, 1982.

David Kevin Gustavison, of Alma, Mich.; B.S. Ferris State College, 1981; D.O. Michigan State University, 1986.

Marlene Elizabeth Haffner, of Rockville, Md.; M.D. The George Washington University, 1965.

Sherry C. Hammond, of Baltimore, Md.; B.S.N. College of Notre Dame, 1982.

Jeanne Marie Hand, of Portsmouth, R.I.; B.S. Northeastern University, 1986.

Susan Marie Harrington, of Pittsburgh, Pa.; B.S. University of Pittsburgh, 1984.

Sarah Claudette Hayward, of Exmouth, England; B.S.N. Queen's University, 1984.

Peter Herzig, of Krefeld, West Germany; M.D. University of Duesseldorf, 1973.

Judith Derkash Hollander, of Portland, Ore.; B.S. Mary Baldwin College, 1970; B.S.N. Vancouver City College, 1976.

Chaur-Dong Hsu, of Taipei, Republic of China; M.D. Kaohsiung Medical College, 1982.

Ching Chaw C. Huang, of Bethesda, Md.; B.S.N. National Taiwan University, 1966; M.A. New York University, 1976.

Peter Sheng-Hsiong Huang, of Wilmington, Del.; M.D. Taipei Medical College, 1967.

Ellen M. Hutchins, of Gaithersburg, Md.; B.A. Framingham State College, 1975; M.S.W. University of Connecticut, 1978.

Kenneth Craig Hyams, of Rockville, Md.; B.A. University of Texas, 1972; M.D., 1978.

Carolus Bernardus IJsselmuiden, of Johannesburg, South Africa; M.D. Erasmus University of Rotterdam, 1980.

Michael Pullar Johnson, of New York, N.Y.; B.A. Clark University, 1979; M.D. Tufts University, 1983.

Walter Leonard Jones, Jr., of Baltimore, Md.; B.S.N. Andrews University, 1983.

Malcolm Nathaniel Joseph, III, of New York, N.Y.; B.A. Holy Cross College, 1971; M.D. Boston University, 1976.

Lavanya Devesh Kanjarpane, of Silver Spring, Md.; M.B.B.S. Kasturba Medical College, 1985.

Cynthia Joyce Kapphahn, of Birmingham, Mich.; B.A. Oberlin College, 1981; M.D. Yale University, 1987.

Jordan Seth Kassalow, of Scarsdale, N.Y.; B.A. University of Vermont, 1983; O.D. New England College of Optometry, 1988.

Mariana Kastrinakis, of Kensington, Md.; B.A. Harvard University, 1976; M.D., 1980.

Justus Bhendson Katungu, of Kampala, Uganda; M.B.Ch.B. Kampala University, 1977.

Upendrakumar Jayendralal Kharod, of Somerset, N.J.; M.B.B.S. Gujarat University, 1963.

Lynn Sandar Khoo, of Baltimore, Md.; M.B.B.S. Institute of Medicine, Rangoon, 1980.

Lynnda Kay Kiess, of Baltimore, Md.; B.S. Purdue University, 1984.

David Kihwele, of Dar-Es-Salaam, Tanzania; M.D. University of Dar Es Salaam, 1977; M.M., 1984.

Hans-Detlev Kilian, of Berlin, Germany; M.D. University of Hamburg, 1988.

Mihee Kim, of Cheltenham, Pa.; B.S.N. University of Pennsylvania, 1988.

Antariksha Kiri, of New Delhi, India: M.B.B.S. University of Delhi, 1987.

Mary Zeita Kleschen, of Evanston, Ill.; B.A. Indiana University, 1979; M.D., 1983.

Barnett Sheldon Kramer, of Gaithersburg, Md.; M.D. University of Maryland, 1973.

Deirdre Ann La Pin, of Louisville, Ky.; B.A. Agnes Scott College, 1967; M.A. University of Wisconsin, 1971; Ph.D., 1977.

Karim Laouabdia-Sellami, of Aubagne, France; M.D. Lyon University, 1977.

Jordan Laub, of Baltimore, Md.; B.A. Rutgers College, 1974; M.S. University of California at Berkeley, 1978; M.D. University of Medicine and Dentistry of New Jersey, 1983.

John Charles LePore, of Baltimore, Md.; B.A. Boston College, 1986.

Marc Edward Leffer, of Bel Air, Md.; B.A. University of Pennsylvania, 1981; M.D. Mount Sinai School of Medicine, 1985.

Ernest Lynn Leporini, of Gaithersburg, Md.; B.S. California State University, 1977.

Lagsana Leuprasert, of Bangkok, Thailand: B.Sc. Chulalongkorn University, 1975.

Ching-Chuan Liu, of Taipei, Republic of China; M.B. National Taiwan University, 1981.

Peilong Liu, of Beijing, People's Republic of China; B.A. University of Rennes, 1968.

Sven Knudsen Ljaamo, of Tacoma, Wash.; B.S. United States Coast Guard Academy, 1977; M.D. University of Colorado, 1987.

Melvyn Albert Lobo, of Karachi, Pakistan; M.B.B.S. University of Karachi, 1984.

Keith Eustace Loring, of Fruita, Colo.; B.A. University of Colorado, 1986.

Elizabeth Clare Lovoy, of Birmingham, Ala.; B.A. University of Tennessee, 1975; B.A., 1976; M.A. University of Maryland, 1985.

Rajiv Luthra, of Chandigarh, India; M.B.B.S. Panjab University, 1989.

Sheila Mae Lutjens, of Gaithersburg, Md.; B.S. Central Michigan University, 1972; B.S.N. Saginaw Valley State University, 1981; M.S.N. The Catholic University of America, 1987.

Theodore George MacKinney, of Baltimore, Md.; B.S. Wheaton College, 1980; M.D. Medical College of Wisconsin, 1985.

Susan Beth Manoff, of Broomall, Pa.; B.A. Princeton University, 1977; M.D. Yale University, 1981.

Charles Khakali Maringo, of Nairobi, Kenya; M.B.Ch.B. University of Nairobi, 1981.

Alison Jean Markwick, of Melbourne, Australia; B.Sc. Monash University, 1984; M.Sc., 1987.

Charles M. Maynard, of Brooklyn, N.Y.; B.S. University of Maryland, 1986.

Raquel Mazer-Gurmendi, of Birmingham, Al.; D.D.S. University of Sao Paulo at Preto, 1983; M.S. University of Alabama at Birmingham, 1988.

Reuben Loxin Mboge, of Banjul, Gambia; M.B.B.Ch. Cairo University, 1978.

Farshid Meidany, of Malabo, Equatorial Guinea; M.D. Tehran University, 1978.

Elisabeth Wubbe Meima, of Fribourg, Switzerland; M.D. Basel University, 1975.

Fokke Meima, of Rotterdam, The Netherlands; M.D. Erasmus University, 1975.

Prosper Adjei Mensah, of Denu, Ghana; M.D. Institute of Medicine and Pharmacy, 1981.

Gail Hebden Merenyi, of Hampstead, Md.; B.S. The Johns Hopkins University, 1980.

Alida Merrill, of Rochester, N.Y.; B.S. Rochester Institute of Technology, 1981; B.S.N. University of Rochester, 1988.

Gary Dean Meyer, of Junction City, Kan.; B.S. Kansas State University, 1983; D.V.M., 1985.

Joan Dorothea Millsap, of Brantford, Canada; B.A. Queen's University, 1980.

Clifford Seth Mitchell, of Baltimore, Md.; B.A. Williams College, 1979; S.M. Massachusetts Institute of Technology, 1981; M.D. Case Western Reserve University, 1987.

Romanus Njani Saidi Mkerenga, of Dar-Es-Salaam, Tanzania; M.D. University of Dar Es Salaam, 1977; D.P.H., 1982.

Cynthia Carol Mobley, of Riverview, Mich.; B.S.E. The University of Michigan, 1982; M.D., 1986.

Randall Jay Moore, of Kansas City, Mo.; B.A. University of Missouri, 1976; M.D., 1978.

William Jarrett Morris, of Baltimore, Md.; B.S. University of California at Davis, 1983; M.D. University of California at San Diego, 1989.

John Charles Scott Murray, of Adelaide, South Australia; B.M.B.S. Flinders University, 1986.

Robert Ngolo Mwadime, of Nairobi, Kenya; B.Sc. University of Nairobi, 1986.

Pem Namgyal, of Tongsa, Bhutan; M.B.B.S. All India Institute of Medical Sciences, 1986.

Gabriella Miriam Newes, of Newton, Mass.; B.A. Oberlin College, 1987.

William L. Novakoski, of Robinson, Ill.; B.S. Indiana State University, 1981; D.O. College of Osteopathic Medicine and Surgery, 1987.

Njideka Ekene Okonjo, of Ogwashi-Uku, Nigeria; M.B.B.S. University of Nigeria, 1988.

Roland Stephen Tewogbola Onawola, of Offa, Nigeria; B.S. Ahmadu Bello University, 1969; M.Ed. University of Pittsburgh, 1980; Ph.D., 1984.

Pascal Claude Ortiz, of Paris, France; M.D. University of Paris, 1985.

Maria Jose Ortuno, of Madrid, Spain; M.D. University Complutense at Madrid, 1978.

Katharine Marie Pabst, of Baltimore, Md.; B.S.N. University of Maryland, 1977; M.S., 1985.

David Peyton Page, Jr., of Fernandina Beach, Fla.; B.A. Mercer University, 1979; M.D. University of South Florida, 1982.

Patricia A. Paluzzi, of Baltimore, Md.; B.S.N. College of Notre Dame, 1981.

David Grange Pattison, of Barrington, Ill.; B.A. University of Chicago, 1985; M.D. The Johns Hopkins University, 1990.

Phyllis Abramczyk Payne, of Arlington, Va.; B.A. Vassar College, 1985.

Gianfranco Pezzino, of Baltimore, Md.; M.D. University of Bologna, 1979.

Owen Alexander Prowse, of Toronto, Canada; B.A. McGill University, 1986; B.Sc. University of Toronto, 1988.

Jean Rena Foiani Rabenau, of Downingtown, Pa.; B.S.N. University of Denver, 1960.

Niaz Rahman, of Barisal, Bangladesh; M.B.B.S. University of Dhaka, 1982; D.O., 1986.

Lawrence David Ramunno, of Buffalo, N.Y.; B.S. Rensselaer Polytechnic Institute, 1983; M.D. State University of New York at Buffalo, 1987.

Elizabeth Gray Raymond, of Baltimore, Md.; B.A. Swarthmore College, 1980; M.D. Columbia University, 1984.

Theresa Jeanne Reinhart, of Barrington, Ill.; B.S. Boston College, 1984.

Waverly Rennie, of Richmond, Va.; B.A. University of Virginia, 1984.

Sheila Rhodes, of Baltimore, Md.; B.S. University of Pittsburgh, 1977; M.D. University of Maryland, 1981.

Donald L. Rice, of Washington, D.C.; B.S. Georgia Institute of Technology, 1970; M.S., 1974; Ph.D., 1979.

James Richard Riddle, of Knoxville, Tenn.; D.V.M. University of Tennessee, 1984.

Antonius Henricus Rijsemus, of Ede, The Netherlands; B.B.A. The Netherlands School of Business, 1975; M.D. Free University, 1985.

Christopher Hans Rittmeyer, of Baltimore, Md.; B.S. Cornell University, 1985; M.D. The Johns Hopkins University, 1989.

Paul Robinson, of Chittagong, Bangladesh; M.B.B.S. University of Chittagong, 1983; M.T.S. Grand Rapids Baptist Seminary, 1990.

Patricia Robbins Robuck, of Gambrills, Md.; B.S.N. University of Maryland, 1984.

Barbara Rojnik, of Ljubljana, Yugoslavia; M.D. Edvard Kardelj University of Ljubljana, 1982; M.Sc., 1989.

Magdalena Isabel Rosell-Murphy, of Barcelona, Spain; M.D. Autonomous University of Barcelona, 1985.

Irit Rosenblatt, of Beer-Sheva, Israel; M.D. Tel Aviv University, 1978.

Steven Robert Rosenthal, of Ann Arbor, Mich.; B.A. Cornell University, 1982; M.D. Boston University, 1987.

Francesco Rosmini, of Rome, Italy; M.D. University of Rome, 1973.

Jean Marie Rwangabwoba, of Butare, Rwanda; M.D. National University of Rwanda, 1988.

Isaac Obirim Saigoe, of Accra, Ghana; M.D. Institute of Medicine and Pharmacy at Jassy, 1981.

Dominique Bouchereau Saliba, of Petionville, Haiti; M.D. School of Medicine of Haiti, 1984.

Manuel Eduardo Salinas, of Los Andes, Chile; M.D. University of Chile, 1976.

Marcia Regina Issa Salomao, of Belo Horizoute, Brazil; M.D. Federal University of Minas Gerais, 1986.

Judith Sheila Sanders, of Washington, D.C.; B.S. Howard University, 1974; D.D.S., 1978.

Sunil Sazawal, of New-Delhi, India; M.B.B.S. Medical College Srinauar, 1985.

Anita Louise Schill, of Scotch Plains, N.J.; B.S. Russell Sage College, 1974; M.A. New York University, 1979.

Gerald Stephen Scholl, of Dayton, Ohio; B.S. Emory University, 1980; M.D. University of Kentucky, 1984.

Stefan Franz Seebacher, of Nuziders, Austria; M.D. University of Innsbruck, 1984.

Beyene Seiletsion, of Addis Ababa, Ethiopia; B.Sc. Addis Ababa University, 1982.

Richard David Semba, of Minneapolis, Minn.; B.S. Yale University, 1978; M.A. Stanford University, 1983; M.D., 1983.

David M. Serwadda, of Kampala, Uganda; M.B.Ch.B. Makere University, 1982; M.Sc. Newcastle upon Tyne University, 1987; M.Med. Makere University, 1990.

Shahid Shafi, of Karachi, Pakistan; M.B.B.S. Aga Khan University, 1988.

Charlotte Jean Hopkins Shandley, of Des Moines, Iowa; B.A. Simpson College, 1986.

Bernhard H. Singsen, of Wilmington, Del.; B.A. Oberlin College, 1964; M.D. New York University, 1968.

Luke J.B. Siyame, of Mbeya, Tanzania; M.D. University of Dar Es Salaam, 1977; M.Med., 1984.

Elizabeth Moncure Smith, of Arlington, Va.; B.S.N. Vanderbilt University, 1972.

Richard John Snow, of Columbus, Ohio; B.S. Denison University, 1978; D.O. Philadelphia College of Osteopathic Medicine, 1983.

Meta Ann Snyder, of Linthicum, Md.; A.A. Catonsville Community College, 1976; B.S.N. University of Maryland at Baltimore, 1980; M.S.N., 1985.

Agnes Laure Bernadette Soucat, of Reims, France; M.D. University of Nancy, 1990.

Christopher Edward Spitters, of Palo Alto, Calif.; B.S. University of California at Davis, 1985; M.D. Stanford University, 1989.

Kai Spratt, of Silver Spring, Md.; B.S.N. The Catholic University of America, 1988.

Mary Allen Staat, of Erlanger, Ky.; B.S. George Williams College, 1981; M.D. University of Kentucky, 1986.

Eric Stewart Starbuck, of Watertown, Mass.; B.A. Brandeis University, 1981.

Stephanie Blenda Strauss, of Baltimore, Md.; B.A. University of Pennsylvania, 1985; M.D.C.M. McGill University, 1989.

Marian Toth Sullivan, of Silver Spring, Md.; B.S. University of Notre Dame, 1977; M.S. Clemson University, 1981.

Angela Anthony Swinson, of Washington, D.C.; B.A. The Johns Hopkins University, 1983; M.D. Georgetown University, 1987.

John Raymond Talley, of Teec Nos Pos, Ariz.; B.U.S. University of New Mexico, 1978; M.D., 1982.

Roxanne Claire Thompson, of Baltimore, Md.; B.A. Yale University, 1986.

Ruth Ann Thomson, of Gaitherburg, Md.; B.A. The George Washington University, 1978.

Virginia Elena Toledo, of Santiago, Chile; M.D. University of Chile, 1981.

Mary Margaret Torchia, of Baltimore, Md.; B.S. University of Notre Dame, 1982; M.D. The Johns Hopkins University, 1987.

Charles Valmadrid, of Metro Manila, Philippines; B.S. University of the Philippines, 1984; M.D., 1989.

Frederik Philip Louis Van Loon, of Amsterdam, The Netherlands; B.Sc. University of Amsterdam, 1972; M.Sc., 1977; M.D., 1977.

Petja Ivanova Vassileva, of Sofia, Bulgaria; Ph.D. Medical Academy of Sofia, 1970; D.M.Sc., 1987.

David Wesley Vaughn, of Renton, Wash.; B.A. Seattle Pacific University, 1979; M.D. St. Louis University, 1983.

Matthias Johannes Paul Vennemann, of Munster, Germany; M.D. Free University of Berlin, 1984.

Vincent Oswald Vercruysse, of Brussels, Belgium; M.D. University of Louvain, 1981.

Cesar S. Vicencio Tapia, of Santiago de Chile, Chile; M.D. University of Chile, 1985.

Syed Omar Wasim, of Dhaka, Bangladesh; M.B.B.S. University of Dhaka, 1988.

Jill Midori Watanabe, of Seattle, Wash.; B.A. Reed College, 1985; M.D. The Johns Hopkins University, 1990.

Virginia Marie Weaver, of Savannah, N.Y.; B.A. University of Rochester, 1980; M.D. New York University, 1984.

Coleen Baird Weese, of New York, N.Y.; B.S. York College of the City University of New York, 1982; M.D. University of Southern California, 1986.

Judith Ann Weinstein, of Baltimore, Md.; A.B. Bryn Mawr College, 1985; M.A. New York University, 1987.

Mark C. Wilson, of Amarillo, Texas; B.A. Westminster College, 1981; M.D. Texas Technological University, 1985.

Anna Christine Witte, of Rastede, Germany; Ph.D. University of Basel, 1988.

Alan Thompson Wright, of Cockeyesville, Md.; B.S. Pennsylvania State University, 1978; M.D., 1982.

Arthur Henry Yancey, II, of Brandywine, Md.; B.A. The University of Michigan, 1970; M.D., 1975.

Marty Johnson Yeager, of Baltimore, Md.; B.S. University of Missouri, 1972.

## *Masters of International Public Policy in The Paul H. Nitze School of Advanced International Studies*

Claudia Cevenini, of Barcelona, Spain; B.B.A., M.B.A. ESADE Barcelona, 1975.

Haagen Peder Cumlet, of Copenhagen, Denmark; Danish School of Journalism, 1968.

Leslie A. Delagran, of Toronto, Ontario, Canada; B.Sc. London School of Economics, 1979; M.A. University of Toronto, 1981.

Bruce Edward Empric, of Buffalo, N.Y.; B.A. Canisius College, 1980; M.A. Webster University, 1987.

Steven Anthony Fillipow, of Long Beach, Calif.; B.S. United States Naval Academy, 1979.

Carlos Mario Foradori, of McLean, Va.; B.S. University of El Salvador, 1980; Ph.D., 1987.

David Michael Frank, of Alexandria, Va.; B.S. United States Military Academy, 1978.

Kathryn L. Gauthier, of King of Prussia, Penna.; B.S. The Catholic University of America, 1980; B.S.E.E. Air Force Institute of Technology, 1983; M.A. Universidad Simn Bolvar, 1990.

Elizabeth A. Hogan, of Arlington, Va.; B.A. Stonehill College, 1975.

Haruko Horigome, of Tokyo, Japan; B.A. Sacred Heart University, 1971.

Sara W. Kane, of Washington, D.C.; B.Mus. Boston University, 1965; M.A., 1968; Ph.D., 1979.

Myong Jin Kim, of Seoul, Korea; B.A. Seoul National University, 1978.

Brian Edward Kline, of Washington, D.C.; B.S.F.S. Georgetown University, 1972.

Ning Li, of Nanjing, China; Beijing Foreign Trade Institute. Li Yaping, of Shanghai, China; School of Agriculture.

William John McKeever, of Hicksville, N.Y.; B.S. Marquette University, 1974; M.B.A. University of West Florida, 1980; M.P.A. Harvard University, 1987.

Rolando Mena Guerrero, of El Salvador; M.L. University of El Salvador, 1977.

Randall Purcell, of Washington, D.C.; B.A. Northeastern University, 1979; M.I.A. Columbia University, 1982.

Montserrat Radigales i Jornet, of Barcelona, Spain; Licenciada Ciencias de la Informacion, Universitat Autnoma de Barcelona, 1980.

Mary Carol Rose, of Baltimore, Md.; B.A. University of Virginia, 1976.

Robert Stephen Silberman, of Bethesda, Md.; A.B. Dartmouth College, 1980.

Toru Takama, of Tokyo, Japan; B.S. University of Tokyo, 1981; B.A. Tokyo Metropolitan University, 1984; M.B.A. The George Washington University, 1989.

Thomas C. Woodrow, of Billings, Mont.; B.A. University of Maryland, 1986.

Zhixiang Zhang, of Beijing, China; Diploma Beijing Foreign Language Institute, 1964.

## *Master of Arts in International Affairs in The Paul H. Nitze School of Advanced International Studies*

Neus Arques Salvador, of Barcelona, Spain; Dipl. Universidad Autonoma De Barcelona, 1983; Lic., 1989.

Ester Janosiova, of Bratislava, Czechoslovakia; Dipl. Ing. University of Economics Bratislava, 1987.

Bengt Ljung, of Sollentuna, Sweden; B.A., B.S.J. University of Kansas, 1986.

Cristina Maria Valeria Rotondaro, of Rome, Italy; B.A. John Cabot International College, 1987.

Slawomir M. Solarz, of Krakow, Poland; M.A. Academy of Economics, Krakow, 1985.

Marek Wolski, of Krakow, Poland, B.A. Jagiellonian University, 1987.

## *Master of Arts in The Paul H. Nitze School of Advanced International Studies*

Paal Aasmundrud, of Grebbestad, Sweden; B.Sc. London School of Economics, 1986.

Andrey MacGaffey Abraham, of Chevy Chase, Md.; B.S. Georgetown University, 1987.

Ron David Abrams, of College Park, Md.; B.A. The Johns Hopkins University, 1989.

Hala Selim AlAzar, of Amioun, Lebanon; B.A. The American University of Beirut, 1988.

Ellen Lee Alderton, of The Plains, Va.; B.A. Wellesley College, 1987.

George P. Allard II, of Lewisport, Ky.; B.A. University of Kentucky, 1989.

Rosa Maria Alonso Terme, of Manresa (Barcelona), Spain; Licenciatura, Central University of Barcelona, 1988.

Pablo Alonso y Lopéz, of Madrid, Spain; Licenciado en Derecho Universidad Pontificia Comillas, 1983; M.A. University of Kansas, 1989.

Magdi Mutwakil Ahmed Amin, of Anaheim Hills, Calif.; A.B. Princeton University, 1988.

Robert G. Angevine, of Appleton, Wisc.; B.A. The Johns Hopkins University, 1990.

Robin C. Anthony, of Philadelphia, Penna.; B.A. Duke University, 1988.

Sandra Nunes Aresta, of Naugatuck, Conn.; A.B. Mount Holyoke College, 1988.

Matthew Baylor Arnold, of Barrington, R.I.; B.A. Harvard University, 1983; M.B.A. 1988.

Michael S. Ashford, of Ithaca, N.Y.; B.A. University of Pittsburgh, 1986.

Jon Avins, of Kendall Park, N.J.; B.A. Sarah Lawrence College, 1986.

Michael Joseph Baks, of Grosse Pointe Farms, Mich.; B.A. The Johns Hopkins University, 1990.

Richard Jean Balmadier, of New York, N.Y.; B.S.E.E. Columbia University, 1985.

Laura Barrington, of Corona del Mar, Calif.; B.A. Claremont McKenna College, 1984.

Pamela Marie David Bates, of Cleveland Heights, Ohio; A.B. Bowdoin College, 1989.

Douglas Covell Bayley, of Eau Claire, Wisc.; B.A. Carleton College, 1986.

Michael Leslie Beeman, of Dallas, Texas; B.A. Southern Methodist University, 1988.

Cyrus M. Behbehani, of Alexandria, Va.; B.S. University of Texas, 1985.

Christopher Walker Benning, of Marblehead, Mass.; B.A. Amherst College, 1988.

Susan H. Berger, of Washington, D.C.; B.A. University of Pennsylvania, 1982.

Jonathan David Berman, of New York, N.Y.; B.A. Brandeis University, 1986.

John Anderson Berry IV, of Elizabethtown, Ky.; B.A. The American University, 1985.

Gretchen A. Birkle, of Groton, Conn.; B.A. Pennsylvania State University, 1986.

Gary Bland, of Arlington, Va.; B.A. College of William and Mary, 1984.

Beth E. Blosser, of Kent, Ohio; B.A. Chatham College, 1981.

Paul R. Bouchard, of Frenchville, Maine; B.A. University of Maine, 1989.

Bruce Russell Bowers, of Media, Penna.; B.S.E.E. Carnegie-Mellon University, 1983.

Megan Jane Bowman, of Seattle, Wash.; B.A. Yale University, 1982.

Kyle L. Brandon, of New York, N.Y.; B.A. Cornell University, 1986.

Denise Ellen Brennan, of Essex Fells, N.J.; B.A. Smith College, 1986.

Mary Sharman Bristow, of Belvedere, Calif.; B.A. Clark University, 1988.

Davide V. Brocato, of New York, N.Y.; B.A. State University of New York Stony Brook, 1986.

Bernard Brunet, of La Brede, France; Diplome Institut D'etudes Politiques de Paris, 1988; D.E.A. 1989.

Martha Ann Burke, of Washington, D.C.; B.A. St. Michael's College, 1982.

Susan Brandeis Cahn, of Washington, D.C.; B.A. University of Pennsylvania, 1987.

Paul Joseph Carroll, of Quincy, Mass.; B.A. University of Massachusetts, 1987.

Carlo Guglielmo Cavagna, of Silver Spring, Md.; B.A. Columbia College, 1989.

William A. Clifford, of Bridgewater, Mass.; B.A. Tufts University, 1983.

Veerle Coignez, of Brugge, Belgium; Licentiate Katholieke Universiteit Leuven, 1988; Diploma College of Europe, 1989.

Brian Coleman, of DeWitt, N.Y.; B.A. Syracuse University, 1989.

Hugo Alejandro Concha Canta, of Mexico City, Mexico; Licenciatura en Derecho, National University of Mexico, 1989.

Kathi Lynn Cordova, of Long Beach, Calif.; B.A. Stanford University, 1982.

Jeanine T. Corvetto, of Denver, Colo.; B.A. University of Colorado, 1985.

Marta Costanzo, of Jersey City, N.J.; B.A. St. Peter's College, 1987.

Bruce Joseph Courtney, of Waltham, Mass.; B.A. Framingham State College, 1988.

Marijan Cvjeticanin, of Zagreb, Yugoslavia; Ll.B. University of Zagreb, 1988.

PhieKing Dai, of Union City, N.J.; B.A. Columbia College, 1985.

Jacqueline V. Davis, of Kensington, Md.; B.A. B.A. Haverford College, 1989.

David Laws Decker, of Bethesda, Md.; B.A. Oberlin College, 1983.

Jane C. Delfendahl, of Sacramento, Calif.; B.S.

William E. Dillihunt, of Portland, Me.; B.A. Boston College, 1989.

David Adams Duckenfield, of Washington, D.C.; B.A. Dartmouth College, 1988.

David Earling, of Titusville, N.J.; B.A. Dickinson College, 1988.

Todd David Ebitz, of Bethesda, Md.; B.A. University of California Santa Barbara, 1984.

Mark Gregory Engman, of Durango, Colo.; B.A. The Colorado College, 1983.

Anita Ensor, of Washington, D.C.; B.A. University of Warsaw, 1980.

Simel Esim, of Izmir, Turkey; B.A. Bogazici University, 1988.

Samia S. Farid, of Cairo, Egypt; B.A. The American University in Cairo, 1967; M.A. Webster University Vienna, 1983.

Karen Casper Feldstein, of Chevy Chase, Md.; B.A. Tufts University, 1984.

Samuel Christian Fiore, of Milan, Italy; B.A. Wheaton College, 1989.

Todd Andrew Fisher, of Cherry Hill, N.J.; B.A. Brown University, 1987.

Timothy Andrews Fitzgerald, of Denver, Colo.; B.A. Colorado College, 1985.

Ian Fitzsimmons, of Birmingham, Mich.; B.A. University of Michigan, 1981.

Peter John Forster, of Washington, D.C.; B.A. Stanford University, 1988.

Gregory Edmond Francis, of New York, N.Y.; B.A. The Johns Hopkins University, 1990.

Shai Ari Franklin, of Bala Cynwyd, Penna.; B.A. Temple University, 1989.d

Ahmed Ihab Gamaleldin, of Cairo, Egypt; B.A. The American University in Cairo, 1986; M.B.A. 1989.

Martina M. Ganzera, of Salzburg, Austria; Int. Baccalaureate, United World College of the Adriatic, 1984; Magister der Rechtswissenschaften, Salzburg University, 1989.

D. D. Willard Gardiner, of New York, N.Y.; B.A. Harvard College, 1986.

Helene Génest, of Montreal, Quebec, Canada; B.S. University of Ottawa, 1988.

Laura Daphne Germino, of Charlottesville, Va.; B.A. Brown University, 1984.

John Timothy Giles, of Cranston, R.I.; B.A. Stanford University, 1986, B.S.E.E. 1987.

Lee Martin Goldberg, of Berkeley, Calif.; B.A. University of California Davis, 1984.

Maria E. Gracheva, of New York, N.Y.; B.A. Stanford University, 1987.

Susan J. Gray, of Shelburne, Vt.; B.A. Wesleyan University, 1981; M.A. Columbia University School of Journalism, 1989.

Cindy Green, of Los Angeles, Calif.; B.A. University of California Santa Barbara, 1988.

Juan Pablo Guerrero Amparn, of Mexico City, Mexico; Licenciatura, Universidad Iberoamericana, 1986.

Lawrence Lambert Hamlet, of Granville, Ohio; A.B. Princeton University, 1989.

Kimberly Michele Haroz, of Albuquerque, N.M.; B.A. Brown University, 1987.

Thomas W. Harrer, of Gainesville, Fla.; B.A. University of Florida, 1984.

Abigail D. Harrison, of Lebanon, Penna.; B.A. University of Pennsylvania, 1986.

William Paul Harvey, of Thornton, Colo.; B.A., B.S. Colorado State University, 1987.

Mohamud Ali Hashi, of Mogadiscio, Somalia; The American University.

(Syed) Adnan Hassan, of Karachi, Pakistan; B.A. Reed College, 1988.

Jacqueline Lucia Hayot, of Brooklyn N.Y.; B.A. Dartmouth College, 1985.

David Phillips Heimann, of Oklahoma City, Okla.; B.A. St. John's College, 1987.

Laura Smith Henderson, of Dayton, Ohio; B.A. Bennington College, 1982.

Daniel W. Hildreth, of Falmouth, Me.; B.A. Bowdoin College, 1981.

Alan Mark Hodges, of Victoria, B.C., Canada; B.A. Huron College, University of Western Ontario, 1987; M.A. University of Western Ontario, 1988.

Richard Holtzapple, of Lafayette, Calif.; B.A. Stanford University, 1987.

Eric Humphrey, of Idaho Falls, Idaho; B.A. St. John's College, 1985.

Timothy James Jennison, of Louth, U.K.; B.A. Rider College, 1989.

Anneke Jessen, of Aabenraa, Denmark; Cand. Mag. University of Copenhagen, 1987.

Sarita Jha, of Cerritos, Calif.; B.S. California State University Long Beach, 1980.

Feng Ji, of Shanghai, China; B.A. Shanghai University, 1978.

Eric Laurent Johnson, of San Luis Obispo, Calif.; B.A. University of California Berkeley, 1987.

Freeman E. Jones, of Richmond, Va.; B.A. Washington and Lee University, 1979.

Laura Michele Joseph, of Granville, Ohio; B.S. Georgetown University, 1981.

Anette Kaminski, of So Paulo, Brazil; B.A. Casper Libero University, 1981.

Kanai, Kimio, of Kumamoto, Japan; B.S. Kyushu University, 1984.

Yakup Karaca, of Ankara, Turkey; B.A. Ankara University, 1985.

Thomas M. Kearney, of Portland, Me.; B.A. Harvard University, 1987.

Louise M. Keefe, of Chestertown, Md.; B.A. Duke University, 1988.

Victoria Morrill Keefe, of Norwalk, Conn.; B.A. Trinity College, 1986.

Douglas Ilchung Keh, of Montclair, N.J.; B.A. Cornell University, 1988.

Lee Steven Kempler, of Baltimore, Md.; B.A. University of Pennsylvania, 1986; B.S. 1986; M.B.A. 1990.

Feroz Hassan Khan, of Islamabad, Pakistan; B.A. University of Baluchistan, 1977; B.Sc. University of Karachi, 1987.

Moazzam Ahmed Khan, of Lahore, Pakistan; M.A. University of Punjab, 1986.

Hanya Marie Kim, of Baltimore, Md.; B.A. University of Maryland, 1986.

Ahmet Ihsan Kizíltan, of Izmir, Turkey; B.A. Bosphorus University, 1986.

Keith David Klein, of Columbus, Ohio; B.A. University of Chicago, 1977; M.A. New York University, 1980.

Scott Howard Kleinberg, of New York, N.Y.; B.S. University of Florida, 1983.

J. Edward Knights, of Cincinnati, Ohio; B.A. The Johns Hopkins University, 1990.

John Kremer IV, of Bryn Mawr, Penna.; B.A. Middlebury College, 1986.

Dennis G. LaComb, of Port Edwards, Wisc.; B.A. University of Wisconsin, 1989.

Diane Lafleur, of Montreal, Quebec, Canada; B.A. Middlebury College, 1989.

Mark Stephen Lambrides, of Arlington, Va.; B.A. Kalamazoo College, 1988.d

Nathaniel Isaac Land, of Washington, D.C.; B.A. Carleton College, 1987.

Franklin L. Lavin, of Washington, D.C.; B.S.F.S. Georgetown University, 1979; M.S. 1985.

Daniel Lederman Horwitz, of Santiago, Chile; B.A. Yale University, 1989.

Andrew Paul Leff, of of Scottsdale, Ariz.; B.A. University of Arizona, 1987.

Olivier Lemaigre, of Paris, France; Diplome Institut D'etudes Politiques de Paris, 1985.

Allison M. LeMoine, of Santa Monica, Calif.; B.A. University of California Los Angeles, 1988.

Anne Elizabeth Lester, of Washington, D.C.; B.A. Princeton University, 1986.

Hugues Levaux, of Brussels, Belgium; Licence Universit Libre de Bruxelles, 1988; Matrise 1990.

Joel Nathan Levin, of Sherman Oaks, Calif.; B.A. University of California Berkeley, 1986.

Jeffrey Beall Lilley, of Chevy Chase, Md.; B.A. Williams College, 1986.

Joseph Edgar Lipscomb, of Shaker Heights, Ohio; A.B. Kenyon College, 1987.

Nicole Thérése Lise, of Roosevelt, N.Y.; B.A. Wellesley College, 1986.

Mathew C. Listerud, of Wolf Point, Mont.; B.A. Columbia University, 1980.

Tanya Helena Lolonis, of Redwood Valley, Calif.; B.S.F.S. Georgetown University, 1984.

Andrew C. Luedders, of Lansing, Mich.; B.A. Kalamazoo College, 1988.

Maurits J. F. Lugard, of Heemstede, The Netherlands; M.A. in Law Rijks Universiteit Leiden, 1988.

Nancy K. Luke, of Huron, Ohio; B.A. Miami University, 1987.

Frederic August Luyties III, of Tucson, Ariz.; B.S. University of Arizona, 1968; J.D. 1971; LL.M. Georgetown University, 1975.

Sophia Lynn, of Washington, D.C.; B.A. University of Texas, 1986.

Edward F. MacDonald, of Washington, D.C.; B.S. University of Maine, 1979.

Jacqueline MacLeod, of Nova Scotia, Canada; B.A. University of California San Diego, 1985.

Roza Endalkachew Makonnen, of Addis Ababa, Ethiopia; B.A. Simmons College, 1986.

Maria Helena Maldonado Garces, of Baranquilla, Colombia; B.A. The American University, 1987.

Dubravka Ana Maric, of Zagreb, Yugoslavia; B.S.F.S. Georgetown University, 1987.

Christopher Charles Marks, of Princeton, N.J.; B.A. Colgate University, 1984; D.E.A. Institut d'Etudes Politiques de Paris, 1990.

Nathan Cary Martin, of San Diego, Calif.; B.A. Stanford University, 1988.

Williams Swift Martin, IV, of Washington, D.C.; A.B. Duke University, 1983; J.D. Vanderbilt University, 1987.

Brenda Lee Martineau, of Biddeford, Me.; B.A. Boston University, 1985.

Jocelyn Tunnicliffe Mason, of Bath, U.K.; M.A. Oxford University, 1981.

Timothy James May Jr., of Washington, D.C.; B.A. Boston University, 1988.

Elena McCollim Medina, of San Diego, Calif.; B.A. University of California Berkeley, 1986.

Brian P. McDonald, of Elizabeth, N.J.; A.B. Georgetown University, 1987.

Sean Randall McDonald, of Pittsburgh, Penna.; B.A. University of Virginia, 1988.

Alexander Andrew McPhail, of Portland, Ore.; B.S. Portland State University, 1985.

Sarah Anne McStravick, of Marietta, Ga.; A.B. Smith College, 1988.d

John Galt Metzler, of Atlantic Beach, Fla.; B.A. Cornell University, 1988.

Kirsten Anne Michener, of Corte Madera, Calif.; B.A. University of Pennsylvania, 1988.

Masahiro Michizoe, of Tokyo, Japan; B.A. Keio University, 1983.

Ann Eileen Miller, of San Diego, Calif.; B.A. Smith College, 1986.

Okan Misirli, of Istanbul, Turkey; B.A. Bogazii University, 1988.

Mohamed Farid Mohamed, of Cairo, Egypt; B.Com. Cairo University, 1980; Masters Finafrica Milano, 1987.

Ramon Molina Lladó, of Barcelona, Spain; Licenciate in Phil. University of Barcelona, 1988; Licenciate in Law, 1989.

Momose, Shigeru, of Tokyo, Japan; B.A. Waseda University, 1985.

Christopher Mondini, of Newport Beach, Calif.; B.S.F.S. Georgetown University, 1988.

Maryam Jean Montague, of Wellesley, Mass.; B.A. Smith College, 1988.

Thomas Michael Moran, of Union, N.J.; B.S. St. Peter's College, 1988.

Ikuko Morimoto, of Nagoya, Aichi, Japan; B.Sc. London School of Economics, 1989.

John J. Moss, of Los Angeles, Calif.; B.A. Sarah Lawrence College, 1984; J.D. Stanford University, 1991.

W. Patrick Murphy, of Brattleboro, Vt.; B.A. University of Vermont, 1985.

Thant MyintU, of Rangoon, Burma; A.B. Harvard University, 1987.

Joshua Paul Natkin, of West Redding, Conn.; B.A. Boston University, 1982.

Florence Navarro, of Baccano di Arcola, Italy; Diplome Institut d'Etudes Politiques de Strasbourg, 1989.

Gerrit J. Nicholas, of Stonington, Conn.; B.A. Harvard College, 1984.d

Andrea Nicolaj, of Rome, Italy; Laurea Universita La Sapienza, 1988.

Vivian Noble, of Cambridge, Mass.; B.A. University of New Hampshire, 1977.

PyongChul Oh, of Paramus, N.J.; B.A. The Johns Hopkins University, 1990.

Beth M. O'Laughlin, of Chicago, Ill.; B.S. Mundelein College, 1976; M.Ed. University of Cincinnati, 1979.

Kristin Lorraine Olson, of Pasadena, Calif.; A.B. Harvard University, 1988.

Naoki Ono, of Yokohama, Japan; B.A. Keio University, 1975; M.A., 1978.

Mary Harris O'Reilly, of Brookline, Mass.; A.B. Bryn Mawr College, 1985.

Helen J. Panaritis, of Athens, Greece; B.A. The American College of Greece, 1989.

Ronald Lynn Parker, of Evanston, Ill.; B.A. Stanford University, 1984.

Timothy Levon Parker, of of Fairless Hills, Penna.; B.A. Dartmouth College, 1987.

Craig S. Peterson, of Minneapolis, Minn.; B.A. University of Minnesota, 1989.

David L. Peterson, of Washington, D.C.; B.A. Columbia College, 1982; M.S., 1985.

Patricia Lynn Petty, of Washington, D.C.; B.A. Oberlin College, 1978.

Joanna Marie Pineda, of San Francisco, Calif.; B.A. Stanford University, 1987.

Peter J. Pintar, of New York, N.Y.; B.A. University of Wisconsin Madison, 1980.

Maxine Marie Pitter, of Roslyn, N.Y.; B.A. Tufts University, 1985.

Melanie Alicia Posey, of Baltimore, MD; B.A. Amherst College, 1987; M.A. University of Michigan, 1990.f

Ann Kennard Proctor, of Concord, N.H.; B.A. Trinity College (Conn.), 1985; M.A. Middlebury College, 1986.

Chandler Cyle Prosser, of Florence, S.C.; B.A. Rhodes College, 1989.

Mark E. Pruzanski, of Toronto, Ontario, Canada; B.A. McGill University, 1989.

Janet R. Purdy, of San Antonio, Texas; B.A. Yale University, 1982.Edith P. Quintrell, of Cleveland, Ohio; B.A. Princeton University, 1985.

Daniel R. Radack, of Swampscott, Mass.; B.S.M.E. University of Massachusetts, 1987.

Charles Randolph IV, of Enfield, Conn.; B.A. University of Connecticut, 1989.

Jurgen Reichert, of Berlin, Germany; Diploma Free University of Berlin, 1987.

Mauricio Reina, of Bogota, Colombia; B.A. Universidad de los Andes, 1985; M.A., 1989.

John Paolo Righini, of Washington, D.C.; B.A. University of Wisconsin Madison, 1989.

John Arthur Robinson, III, of Evanston, Ill.; B.A. University of Notre Dame, 1986.

Daniel Alan Rochman, of Omaha, Neb.; A.B. University of Michigan, 1986.

Andreas Roelofs, of Geneva, Switzerland; B.A. The American University, 1988.

Susanne Catherine Rose, of Iowa City, Iowa; B.A. Dartmouth College, 1987.

Daniel N. Rosenblum, of Cleveland, Ohio; B.A. Yale University, 1984.

Shane J. Rosenthal, of Durham, N.C.; B.A. The American University, 1989.

Brian Leonard Ross, of Silver Spring, Md.; B.A. Brandeis University, 1987.

May Ann Roustom, of Wareham, Mass.; B.A. Assumption College, 1987.

Neal Robert Rudge, of Washington, D.C.; B.A. University of Virginia, 1986.

Adil Hirjee Rustomjee, of Madras, India; B.Comm. University of Madras, 1985; M.M.S. University of Bombay, 1987.

Susan B. Rzemien, of Lancaster, Penna.; B.A. Dickinson College, 1986.

Arturo Sarukhan Casamitjana, of Mexico City, Mexico; B.A. El Colegio de Mexico, 1988.

Ronald Damen Sasine, of Brea, Calif.; B.A. Brigham Young University, 1989.

Thomas William Schierholz, of Washington, D.C.; B.A. Principia College, 1985.

Todd Turner Schneider, of Seattle, Wash.; B.A. Whitman College, 1988.

Daniel A. Seligman, of Joliet, Ill.; B.A. University of Chicago, 1980.

Tanya Shamson, of Washington, D.C.; B.S.F.S. Georgetown University, 1986.

Ryoji Shiina, of Tokyo, Japan; B.A. Aoyama Gakuin University, 1984.

Romano James Sims, of Dumfries, Va.; B.S. State University of New York, 1986.

Yassir Kamil Sindi, of Jeddah, Saudi Arabia; B.Sc. Colorado School of Mines, 1988.

Jayne Karren Smith, of St. Albans, N.Y.; B.A. Wesleyan University, 1984.

Mark Donald Smith, of Lancaster, Penna.; B.A. Washington and Lee University, 1980.

Paul Daniel Smith, of Independence, Kan.; B.A. University of Kansas, 1989.

Jeroen J. H. Smits, of BerkelEnschot, The Netherlands; Drs in International Law Leyden University, 1989.d

Nina Manya Sonnenreich, of Washington, D.C.; A.B. Smith College, 1988.

Leigh Ellen Sontheimer, of Pittsburgh, Penna.; B.S. Pennsylvania State University, 1987.

Kirsten E. Speidel, of Charlottesville, Va.; B.A. Oberlin College, 1986.

Elizabeth Lee Stack, of Honolulu, Hawaii; B.A. Connecticut College, 1979.

Katherine Lovett Starr, of Buffalo, N.Y.; B.A. Canisius College, 1989.

David C. Stifel, of Princeton, N.J.; B.A. Colgate University, 1988.

Carol Payne Stranahan, of Bethesda, Md.; B.A. Princeton University, 1986.

Gavin Michael Susman, of Dallas, Texas; B.A. Tulane University, 1987.

Thorunn Sveinbjarnardóttir, of Reykjavk, Iceland; B.A. University of Iceland, 1989.

Rajendra Swamy, of Madras, India; B.A. University of Madras, 1977.

Sarah A. Swanson, of Seattle, Wash.; B.A. Kenyon College, 1980.

John SwensonWright, of Swansea, U.K.; B.A. Oxford University, 1987.

Takahashi, Motoki, of Tokyo, Japan; B.A. University of Tokyo, 1984; B.B.A., 1984.

Takuya Tasso, of Morioka, Japan; B.A. University of Tokyo, 1988.

Christopher J. Thomas, of W. Springfield, Mass.; B.A. The George Washington University, 1985.

Landon Thomas, of New York, N.Y.; B.A. Middlebury College, 1987.

Susan Ashton Thornton, of Boxford, Mass.; B.A. Bowdoin College, 1985.

Anne Marie Thurber, of New Orleans, La.; B.S. Louisiana State University, 1983; M.B.A. Tulane University, 1985.d

Tamara Lyn Underwood, of Minneapolis, Minn.; B.A. University of California Berkeley, 1987.

Laura Elise Vásquez, of Amherst, N.Y.; B.A. The Johns Hopkins University, 1988.

Sophia Vassiliou, of Nicosia, Cyprus; B.Sc. Reading University, U.K.; 1989.

Saskia Pepita Fransiska Veendorp, of Amsterdam, The Netherlands; B.A. Clark University, 1988.

Enrique Antonio Velasco Ibarra Ruiz, of Mexico City, Mexico; B.L. University of Guanajuato, 1985; Diploma Diplomatic School of Madrid, 1987.

Lynn M. Wagner, of S. Pasadena, Calif.; B.A. Scripps College, 1988.

Roberta Jeanne Waxman, of Poughkeepsie, N.Y.; B.A. Wesleyan University, 1983.

Christiaan K. Weiland, of Mierlo, The Netherlands; M.A. University of Amsterdam, 1991.

Sharon Louise Werning, of Sonora, Calif.; B.A. University of California Davis, 1982.

Leopold E. Wetula, of Lakewood, Ohio; B.A. Miami University, 1987.

S. A. M. Whipple, of McLean, Va.; B.A. Oxford University, 1987.

Mark William Whitcomb, of Washington, D.C.; B.A. George Mason University, 1989.

Ned White, of St. Paul, Minn.; B.A. Stanford University, 1987.

Sheree Dovough White, of Freehold, N.J.; B.A. Amherst University, 1987.

Timothy Edward Wilder, of Portland, Ore.; B.S. Pennsylvania State University, 1983; M.Div. Fuller Theological Seminary, 1987.

Stephen Charles Williams, of Albuquerque, N.M.; B.S. United States Military Academy, 1982.

Mary Leyden Williamson, of Pawling, N.Y.; B.A. Stanford University, 1985.

Andrea Marie Wojnar, of Cape Coral, Fla.; B.A. Wesleyan University, 1986.

Tobias WolnyFollath, of Hamburg, Germany; B.A. Brown University, 1988.

David Y. Wong, of Falls Church, Va.; B.B.A. College of William and Mary, 1989.

Naohiko Yahaba, of Sendai, Japan; B.E. Tohoku University, 1984.

Koichi Yamaguchi, of Tokyo, Japan; B.A. The National Defense Academy, 1986.

Salman Zaheer, of New Delhi, India; B.S. St. Stephen's College, Delhi University, 1976; M.B.A. University of Louisville, 1981.

Florence Sara Namagembe Zake, of Park Forest, Ill.; B.A. University of Illinois, 1988.

Arete Tina Zournatzi, of Athens, Greece; B.S.F.S. Georgetown University, 1987.

## *Masters of Arts in The School of Medicine*

Benjamin Beazley Broome, of Macon, GA; B.A., Carson-Newman College, 1989; Medical and Biological Illustration. *Protozoan Parasites of White Perch (Morone Americana) from the Chesapeake Bay.*

Carl Gene Clingman, of Baraboo, WI; B.S., University of Wisconsin-Madison, 1989. Medical and Biological Illustration. *Autopsy Prosector Manual and On Site Referral Charts.*

James Robert Duckwall, of Roanoke, VA; B.A., Wake Forest University, 1987. Medical and Biological Illustration. *Conversion of Illustrations to Postscript Computer Images: An Analysis of Costs and Aesthetic Considerations.*

Sandra D. Pressman Levine, of Bethesda, MD; B.A., The George Washington University, 1973. History of Medicine. *The Development of Rehabilitation Medicine: A Product of Opportunity.*

Stacy Joy Lund, of Baltimore, MD; B.A., Hood College, 1987. Medical and Biological Illustration. *The Visceral Anatomy of Cynomys Ludovicianus.*

Anthony LeRoy Owens, of Oxon Hill, MD; B.S., Massachusetts Institute of Technology, 1988. Neuroscience. *Presynaptic and Postsynaptic Mechanisms which Mediate Long Term Synaptic Potentiation or Depression at Parallel Fiber Synapses in the Dorsal Cochlear Nucleus of the Guinea Pig.*

Terry Teruko Toyama, of Bonita, CA; B.A., University of California, San Diego, 1986. Medical and Biological Illustration. *An Anatomical Study of the Muscles of Masticatication Deglutition and Vocalization in the Cougar, Felis concolor.*

Christl Eileen Zaccagnino, of Spotsylvania, VA; A.B., Cornell University, 1986. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. *Development of an Assay for the Uridine Diphosphogalactose: mannose 1-3Galactosyltransferase, an Enzyme that Modifies the Glycosylphosphatidylinositol Anchor of the Trypanosome brucei Variant Surface Glycoprotein.*

## *Masters of Chemical Engineering in The G.W.C. Whiting School of Engineering*

Wayne A. Gulian, of Newark, Del.; B.Ch.E. University of Delaware, 1983.

Ahmad Razik, of Chicago,. Ill. B.S. Illinois Institute of Technology. 1979.

## *Masters of Civil Engineering in The G.W.C. Whiting School of Engineering*

Joseph Steven Falk, of Baltimore, MD.; B.S.A.E. University of Maryland, 1982.

Thay N. Gopalakrishnan, of Baltimore, MD.; B.E. Bangelore University, India, 1978.

James Patrick Gray, of Carmel, N.Y. Civil Engineering.

Joseph Matthew Gusmano, of Baltimore, MD.

## *Masters of Environmental Engineering in The G.W.C. Whiting School of Engineering*

Marcia Ann McPartland, of Taneytown, Md.; B.S. Virginia Polytechnic Institute and State University, 1986.

Kenneth Lyle Small, of Silver Spring, Md.; B.A. University of Washington, 1966; B.S. Louisiana Tech University, 1973; M.S. Troy State University, 1976.

## *Masters of Materials Science and Engineering in The G.W.C. Whiting School of Engineering*

Michael J. DeMario, of New York, N.Y.; B.S.E. Duke University, 1983.

Timothy Guy Farrand, of Bel Air, Md.; A.A. Harford Community College, 1980; B.S. Virginia Polytechnic Institute and State University, 1982.

James John Kyriacopoulos, of Baltimore, Md.; B.S.M.E. Lehigh University, 1983.

Bradford Haile Parker, of Silver Spring, Md.; B.S. Virginia Polytechnic Institute and State University, 1982.

Richard Edward Rebis, of Arnold, Md.; B.S. Pennsylvania State University, 1987.

## *Masters of Mechanical Engineering in The G.W.C. Whiting School of Engineering*

Teresa May Betenbaugh, of McLean, Va.; B.S.C.E. University of Virginia, 1981.Gina Caruso, of HastingsonHudson, N.Y.; B.S. Duke University, 1987.

Charles Ridgeway Culver III, of Akron, Ohio; B.S.M.E. University of Akron, 1987.

Thomas Allan Githens, of Pennsville, N.J.; B.S. Purdue University, 1985.

Roger Lewis Griffin III, of Baltimore, Md.; B.S.M.E. Lehigh University, 1984.

Gregory Scott Hinte, of Baltimore, Md.; B.S.M.E. Clemson University, 1983.

Michael Richard Nussbaum, of Mahopac, N.Y.; B.S. Lafayette College, 1986.

Dennis Wayne Ward, of Jessup, Md.; A.A. Thames Valley State, 1979; B.S.M.E. University of Connecticut, 1982.

Michael Joseph Zoltoski, of Abingdon, Md.; B.S.C.E. Bucknell University, 1982.

## *Masters of Science in The G.W.C. Whiting School of Engineering*

Robert Daniel Adams, of Annapolis, Md.; B.S.E.E. Clarkson University, 1983. Electrical Engineering.

Ryan Charles Agee, of Glen Burnie, Md.; B.S.E.E. University of Maryland, 1988. Electrical Engineering.

Robert Aaron Akka, of San Francisco, Calif.; B.A. University of CaliforniaBerkeley, 1985. Computer Science.

Laurie Constance Alexander, of Arnold, Md.; B.A. St. John's College, 1979. Computer Science.

Christine E. Allen, of Royal Oak, Mich.; B.S. Lawrence Institute of Technology, 1985. Computer Science.

David Craig Alonge, of Fairfax, Va.; B.S. West Virginia University, 1985. Computer Science.

Nancy Shinyi An, of Silver Spring, Md.; B.S. University of Maryland, 1986. Computer Science.

Albert Anderson, Jr., of Pine Hill, Ala.; B.S. University of South Alabama, 1985. Computer Science.

David Lee Anderson, of Ellicott City, Md.; B.S. Michigan Technological University, 1987. Computer Science.

Philip John Anglin, of Dubuque, Iowa. Computer Science.

John Keith Antonishek, of Gaithersburg, Md.; B.S.C.S. University of Pittsburgh, 1987. Computer Science.

Vincent James Anzaldi, of Munroe Falls, Ohio; B.S. University of Akron, 1986. Computer Science.

Mark Jordan Appel, of St. Louis, Mo.; B.S.E.E. Bradley University, 1987. Electrical Engineering.

Gregory Clark Archbold, of Salt Lake City, Utah; B.S. United States Naval Academy, 1990. Applied Physics.

Nathan Gabriel Arlington, of Pasadena, Md.; B.S.E.E. University of Toledo, 1987. Electrical Engineering.

Andrew Adams Armstrong III, of Brookeville, Md.; B.S. Tulane University, 1970. Technical Management.

Michelle Kim Armstrong, of Atlanta, Ga.; B.E.E. Georgia Institute of Technology, 1987. Electrical Engineering.

William Jack Armstrong, of Gaithersburg, Md.; B.S. United States Military Academy, 1973. Technical Management.

Devolyn Ann Arnold, of Elkridge, Md.; B.S. University of Georgia, 1985. Computer Science.

Lois Beth Arnold, of Mineola, N.Y.; B.A. Northeastern University, 1971. Computer Science.

Brad Cook Astor, of Marion, Iowa; B.S.E. University of Iowa, 1987. Electrical Engineering.

Judith C. Atkins, of Bel Air, Md.; A.A. Harford Community College, 1982; B.S. University of Maryland, Baltimore County, 1988. Computer Science.

Scott D. Bachman, of Laurel, Md.; B.S. Pennsylvania State University, 1986. Computer Science.

Rouse Roby Bailey Jr., of New Park, Pa.; B.S.M.E. Virginia Polytechnic Institute and State University, 1979. Technical Management.

Stewart Dwayne Baker, of Alvin, Texas; B.S.E.E. Texas Agricultural and Mineral University, 1988. Electrical Engineering.

Mark Everett Baldwin, of Fayetteville, N.C.; B.S.E.E. North Carolina State University, 1985. Electrical Engineering.

Brian J. Barbour, of Baltimore, Md.; B.S.E.E. Pennsylvania State University, 1981. Electrical Engineering.

Aletha Lynn Barnes, of Portsmouth, Va.; B.A. Elon College, 1973. Computer Science.

Elizabeth Hastings Barnett, of Columbia, Md.; B.S. University of Maryland, Baltimore County, 1988. Computer Science.

Steven Robert Barnum, of North Berwick, Maine; B.S.E.E.T. Louisiana Tech University, 1980; B.S.C.S. University of Maryland, 1985. Computer Science.

Ann Shawn Barry, of Baltimore, Md.; B.A. Hollins College, 1980. Computer Science.

George Dennis Bartko, of Columbia, Md.; B.S.E.E. Drexel University, 1985. Electrical Engineering.

Shivanand Basappa, of Greenbelt, Md.; B.S. Bangalore University, 1976; M.S. Indian Institute of Science, India, 1978. Computer Science.

Shari Lynn Basch, of Philadelphia, Pa.; B.S. Duke University, 1987. Computer Science.

Paul Francis Batchelor, of Severn, Md.; B.S.E.E. Michigan Technological University, 1978. Technical Management.

Kirk Landon Bateman, of Denver, Colo.; B.S.E.E. University of Colorado at Denver, 1986. Electrical Engineering.

Edmund H. Baur, of Forest Hill, Md.; B.S. University of Cincinnati, 1982. Computer Science.

Martin Stanley Beautz, of Catonsville, Md.; B.S.E.E. University of Illinois at UrbanaChampaign, 1987. Electrical Engineering.

Daniel Elliott Beeder, of Littleton, Colo.; B.S.E.E. University of Colorado, 1986. Electrical Engineering.

Alem Befekadu, of Addis Asaba, Ethiopia; B.S.E.E. George Washington University, 1983. Computer Science.

Stephen Harold Belcher, of Reisterstown, Md.; B.S.E.E. Cornell University, 1975. Electrical Engineering.

Mark Allen Bellmore, of Alpena, Mich.; B.S. Lake Superior State University, 1987. Computer Science.

Timothy Dennis Bender, of Columbia, Md.; B.S.E.E. University of Maryland, 1983. Computer Science.

Margaret Ann Benitez, of Ellicott City, Md.; B.S. University of Maryland, Baltimore County, 1987. Computer Science.

David Michael Berstein, of Baltimore, Md.; B.S. University of Maryland, 1986. Computer Science.

David Betancourt, of Laurel, Md.; B.S. University of Maryland, 1984. Applied Mathematics.

Peter Anthony Beyak, of Millersville, Md.; B.S.E.E. University of Illinois at Chicago, 1985. Electrical Engineering.

John M. Bez, of Ellicott City, Md.; B.S. University of North Carolina at Greensboro, 1974. Computer Science.

Karuna D. Bhatia, of Damascus, Md.; B.S. Delhi University, 1980; M.S., 1982; M.Ph., 1983. Computer Science.

Darryl Scott Bierly, of Germantown, Md.; B.S.E.E. University of Virginia, 1983. Electrical Engineering.

Douglas William Billings, of Gaithersburg, Md.; B.A. Dartmouth College, 1987. Computer Science.

Susan Mary Bird, of Arnold, Md.; B.A. University of Virginia, 1985. Computer Science.

Anne Maxwell Bishop, of Wichita Falls, Texas; B.S. San Jose State University, 1969. Applied Mathematics.

Michael Dean Black, of San Jose, Calif.; B.S.E.E. Brigham Young University, 1987. Computer Science.

Annie Sipp Blackwell, of Silver Spring, Md.; B.S. Tuskegee University, 1973. Technical Management.

Bonnie Currie Blades, of Bethesda, Md.; B.A. University of Wisconsin, 1964; M.A. American University, 1969. Computer Science.

Alston Wilcox Blount III, of Germantown, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1984. Electrical Engineering.

Thomas John Bonazza, of Columbia, Md.; B.S.E.E. West Virginia University, 1986. Electrical Engineering.

Eric W. Booth, of Edmeston, N.Y.; B.S. State University of New York at Oneonta, 1982. Computer Science.

John Leonard Border, of Cincinnati, Ohio; B.A. University of Cincinnati, 1984. Computer Science.

Jerome Wayne Bost, of Pasadena, Md.; B.S.E.E. University of Maryland, 1985. Electrical Engineering.

Dorothy L. Bowerman, of Lusby, Md.; B.A. Goucher College, 1985.Computer Science.

Robert Russell Boye, of Columbia Md.; B.S.E.E. Massachusetts Institute of Technology, 1988. Electrical Engineering.

Michael Richard Boyer, of Walkersville, Md.; B.S.E.E. The Johns Hopkins University, 1987. Computer Science.

Michael Reaves Bracken, of Laurel, Md.; B.S. College of William and Mary, 1986. Computer Science.

Dennis Edward Brady, of Bowie, Md.; B.S.E.E. North Carolina State University, 1984. Electrical Engineering.

Philip James Brainard, of Bel Air, Md.; B.S.M.E. Virginia Polytechnic Institute and State University, 1976. Computer Science.

Kevin Bree, of New York, N.Y. Computer Science.

William John Broemm, of Bel Air, Md.; B.S. Roosevelt University, 1972. Computer Science.

Patrick William Brown, of District Heights, Md.; B.S. University of Maryland 1985. Technical Management.

Robert Bruce Brown, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1983. Computer Science.

Nils Cristian Brubaker, of Germantown, Md.; B.A. The Johns Hopkins University, 1973. Computer Science.

Judy Semin Bruns, of Columbia, Md.; B.S. University of Maryland, Baltimore County, 1985. Computer Science.

Leon S. Bryant, of Brooklyn, N.Y.; B.E.E. Pratt Institute, 1985. Electrical Engineering.

Robert Buecker, of Sayville, N.Y.; B.S.E.E. University of South Carolina, 1985. Electrical Engineering.

John Leeth Bugenhagen, of Lanham, Md.; B.S. James Madison University, 1986. Computer Science.

Dung Quang Bui, of Gaithersburg, Md.; B.S.E.E. University of Maryland, 1986. Electrical Engineering.

Hai H. Bui, of Upper Marlboro, Md.; B.S.E.E. Drexel University, 1985. Electrical Engineering.

Christopher Freeman Bunn, of Baltimore, Md.; B.A. Colgate University, 1986. Electrical Engineering.

Nicholas Francis Busch, of Richmond, Ill.; B.S. University of Illinois at Urbana-Champaign, 1987. Electrical Engineering.

Steven Mark Buswell, of Elkridge, Md.; B.S.E.E. University of Pittsburgh, 1983. Electrical Engineering.

Dawn Marie Buttion, of Joppatowne, Md.; B.S. Loyola College, 1985. Computer Science.

Paul Douglass Caldwell, of Columbia, Md.; B.S.E.E. Brown University, 1985. Computer Science.

Glen Eric Cameron, of Germantown, Md.; B.A. University of Maryland, 1979; M.S. George Washington University, 1987. Applied Physics.

Theodore Richard Campbell, Jr., of Salem, Ohio; B.S. Ohio State University, 1987. Applied Physics.

Michael John Capparelli III, of Rome, N.Y.; A.S. Mohawk Valley Community College, 1980; B.S.E.E. Virginia Polytechnic Institute and State University, 1982. Electrical Engineering.

Jeffrey John Carlson, of Fairview, Pa.; B.S.E.E. West Virginia University, 1985. Computer Science.

Karen Louise Case, of Westminster, Md.; B.S. Loyola College, 1985. Computer Science.

Robert Adam Case, of Farmington, Mich.; B.S. Michigan State University, 1988. Computer Science.

Maureen J. Cashman, of Columbia, Md.; B.S. Bucknell University, 1988. Computer Science.

Donald Kevin Cassatt, of Charleroi, Pa. Computer Science.

John Robert Centafont, of Levittown, Pa.; B.S.E.E. Drexel University, 1986. Electrical Engineering.

Noreen Centafont, of Ellicott City, Md.; B.S. St. John's University, 1986. Computer Science.

In Cha, of Baltimore, Md.; B.S. Rensselaer Polytechnic Institute, 1988. Electrical Engineering.

Boon Hwee Chan, of Essex, Md.; B.S. Iowa State University, 1984; M.S. Virginia Polytechnic Institute and State University, 1987. Computer Science.

Steve Ngar Chan, of Adelphi, Md.; B.S. University of Maryland, 1981. Electrical Engineering.

JyTai Chang, of Berwyn Heights, Md.; B.S. National Central University, Taiwan, 1972; M.S., 1974; Ph.D. Oregon State University, 1981. Computer Science.

ShuHuei Huang Chang, of North Potomac, Md. Computer Science.

Robert John Channas, of Pasadena, Md.; B.S.E.E. Pennsylvania State University, 1982. Computer Science.

Cheng C. Chen, of Baltimore, Md.; B.A. National Taiwan University, 1960; M.B.A. Morgan State University, 1975. Computer Science.

Leon J. Chen, of Philadelphia, Pa.; B.S.E.E. Drexel University, 1987. Electrical Engineering.

Lip-Meng Chen, of Gaithersburg, Md.; B.S.E.E. George Washington University, 1986. Electrical Engineering.

Meeho Wong Chin, of Bethesda, Md.; B.S. State University of New York, 1973. Technical Management.

Sarada B. Chintala, of Hyderabad, India; B.S. Regional Engineering College, 1981. Computer Science.

James Michael Chios, Lutherville, Md.; B.S. University of Maryland, 1987. Computer Science.

David Evan Christman, of Canton, Ohio; B.S.E.E. University of Akron, 1985. Electrical Engineering.

Michael So Chyi, of Burtonsville, Md.; B.S. National Taiwan University, 1977; M.A. Princeton University, 1981; Ph.D., 1984. Computer Science.

Lisa Burnell Clark, of North Muskegon, Mich.; B.S. Central Michigan University, 1985. Computer Science.

Lori Michelle Clarke, of Cato, N.Y.; B.A. State University of New York at Potsdam, 1987. Computer Science.

James Peter Codespote, of Beaver Falls, Pa.; B.S. University of Pittsburgh, 1987. Computer Science.

Keith D. Colton, of Columbia, Md.; B.S. University of Evansville, 1985. Computer Science.

Steven J. Conard, of Sykesville, Md.; A.A. Ulster County Community College, 1979; B.S. University of Arizona, 1981. Applied Physics.

Brian Lawrence Connelly, of Greenbelt, Md.; B.S.E.E. Rutgers University, 1987. Electrical Engineering.

Joseph Andrew Consugar, of Minersville, Pa.; B.S.E.E. Bucknell University, 1985. Electrical Engineering.

Juan Christopher Correa, of Upper Marlboro, Md.; B.S.E.E. University of Maryland, 1984. Electrical Engineering.

Kevin Charles Corriden, of Indianapolis, Ind.; B.S.E.E. University of South Florida, 1987. Electrical Engineering.

James Joseph Costabile, of Mayfield Heights, Ohio; B.S.E.E. University of Akron, 1987. Electrical Engineering.

Kenneth B. Cox, of Jessup, Md.; B.S. University of Delaware, 1985. Computer Science.

Kevin Lee Craft, of Severna Park, Md.; B.S. Case Western Reserve University, 1984. Electrical Engineering.

Michael Thor Craig, of Rockville, Md.; B.S. University of Maryland, 1984. Computer Science.

Robert Taylor Craig, Jr., of Columbia, Md.; B.S.E.E. Massachusetts Institute of Technology, 1986. Electrical Engineering.

Raymond Lee Crandall, of Kalamazoo, Mich.; B.S. Western Michigan University, 1987. Computer Science.

Jeffrey Stuart Crane, Jr., of Columbia, Md.; A.A. Mission College, 1983; B.S. University of Redlands, 1986. Computer Science.

Louise H. Crider, of College Park, Md.; B.A. Georgetown University, 1982. Applied Physics.

John Arnald Cristion, of Columbia, Md.; B.S.E.E. Drexel University, 1986. Electrical Engineering.

John Timothy Croker, of Potomac, Md.; B.S. Syracuse University, 1985. Computer Science.

Donna West Croll, of Glen Burnie, Md.; B.S. University of Maryland, 1986. Computer Science.

Angela Edith Cuttler, of Millersville, Md.; B.S. University of Maryland, Baltimore County, 1987. Computer Science.

Roy David Cutts, of Gretna, La.; B.S. Louisiana State University in Shreveport, 1982. Computer Science.

Robert Daniel Dahm, of Aurora, Ill.; B.S.E.E. Bradley University, 1985. Electrical Engineering.

Scott Ellis Dahne, of Columbia, Md.; B.A. Western Maryland College, 1980. Technical Management.

Shefali P. Dalal, of Silver Spring, Md.; B.S. Elmhurst College, 1984. Computer Science.

Michael Kevin Daniel, of Severn, Md.; B.S.E.E. Rose-Hulman Institute of Technology, 1985. Electrical Engineering.

Joanna Lynne Dann, of Jessup, Md.; B.S. Rensselaer Polytechnic Institute, 1987. Electrical Engineering.

Ronald W. D'Antonio, of Liverpool, N.Y.; B.S.E.E. Ohio State University, 1987. Electrical Engineering.

Mark Hugh Davey, of Westminster, Md.; B.S. University of Maryland, 1985. Computer Science.

Neil David, of Somerville, N.J.; B.S.E.E. Rutgers University, 1986. Electrical Engineering.

Bruce Michael Davis, of North Potomac, Md.; B.S. Virginia Polytechnic Institute and State University, 1977. Technical Management.

Iris Jayne Davis, of Gaithersburg, Md.; B.S. University of Maryland, 1979. Technical Management.

Kevin Joseph Davis, of Columbia, Md.; B.A. University of Virginia, 1987. Applied Mathematics.

Lee Ann Davis, of Los Alamos, N.M.; B.S. Eastern New Mexico University, 1985. Computer Science.

Katherine Susan Degerberg, of Columbia, Md.; B.S. Vanderbilt University, 1985. Computer Science.

Angela Beth De Jong, of Leighton, Iowa; B.S. Iowa State University, 1986. Computer Science.

Mauricio Raul del Prado, Jr., of Columbia, Md.; B.E.E.E. Sterens Institute of Technology, 1986. Electrical Engineering.

Larry Lewis DellaRocco of Richland, Wash.; B.S. University of Washington, 1987. Computer Science.

Henri Ruhf DeLong, of Laurel, Md.; B.S.E.E. University of Maryland, 1984. Electrical Engineering.

Christine Elizabeth DeMeter, of Annapolis, Md.; B.S. Virginia Polytechnic Institute and State University, 1975. Computer Science.

Clayton Adams Dennis, of Odessa, Texas; B.S. Abilene Christian University, 1988. Computer Science.

William John Deveaney, of McDonald, Pa.; B.S.E.E. CarnegieMellon University, 1977; M.E.S. Loyola College, 1982. Electrical Engineering.

Paul Edward Deveau, of Burtonsville, Md.; B.S. United States Coast Guard Academy, 1985. Computer Science.

Peter Andrew DiFonzo, of New Windsor, Md.; B.S.E.E. The Johns Hopkins University, 1987. Electrical Engineering.

Louis DiStefano, of Ellicott City, Md.; B.S.E.E. University of Maryland, 1979. Technical Management.

John Francis Donelan, Jr., of Chevy Chase, Md.; B.A. Yale University, 1973; J.D., 1977; Ph.D., 1985. Computer Science.

Jonathan Devoy Douglas, of Ellicott City, Md.; B.S.E.E. North Carolina State University, 1986. Electrical Engineering.

Ellen Carroll Dukes, of Laurel, Md.; B.S. Virginia Polytechnic Institute and State University, 1988. Computer Science.

Paul Stephen Dumm, of Baltimore, Md.; B.S. Rensselaer Polytechnic Institute, 1986. Electrical Engineering.

Howard G. Dunphey, Jr., of Glen Burnie, Md.; A.S. Atlantic County Community College, 1979; B.S. Stockton State College, 1985. Computer Science.

Anthony Lynn Dyer, of Laurel, Md.; B.S.E.E. University of Maryland, 1981. Computer Science.

James A. Eagles, of Columbia, Md.; B.A. State University of New York at Potsdam, 1984. Computer Science.

Janet Lynne Eagles, of Fonda, N.Y.; B.A. State University of New York at Potsdam, 1984. Computer Science.

Harry Alan Craig Eaton, of Columbia, Md.; B.S. Colorado State University, 1985. Electrical Engineering.

Bernard Lee Edwards, of Denver, Colo.; B.S.E.E. The Johns Hopkins University, 1989. Electrical Engineering.

Marian Nelson Eisinger, of Kernersville, N.C.; B.A. North Carolina State University, 1986. Computer Science.

Oren David Eisner, of Rockville, Md.; B.S.E.E. CarnegieMellon University, 1984. Computer Science.

Anna ManYee Eng, of Silver Spring, Md.; B.S. University of Maryland, 1986. Computer Science.

Judy Bergmeister England, of Rockville, Md.; B.S. St. Mary's College of Maryland, 1982. Computer Science.

Mark Alan England, of Rockville, Md.; B.S. American University, 1978. Computer Science.

Gail Seth Ennis, of Columbia, Md.; B.S. Loyola College 1987. Computer Science.

Michael Eric Epperly, of Jessup, Md.; B.S.E.E. University of Texas at Austin, 1983; M.S. The Johns Hopkins University, 1989. Electrical Engineering.

Edward Lyle Erickson, of Springfield, Va.; B.S.C.S. University of Virginia, 1985. Computer Science.

Christopher Patrick Everich, of Tampa, Fla.; B.S.E.E. University of South Florida, 1985. Electrical Engineering.

Dana Paul Falkenstine, of Bruceton Mills, W.Va.; B.S. West Virginia University, 1986. Computer Science.

Rebecca Jane McCormick Falkenstine, of Glendale, W.Va.; B.S. West Virginia University, 1986. Computer Science.

Elizabeth Ann Farrar, of Beltsville, Md.; B.S. University of Maryland, 1987. Computer Science.

Thomas Charles Feild, Jr., of Columbia, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1985. Computer Science.

Cynthia Anne Femano, of Solvay, N.Y.; B.A. Lemoyne College, 1983. Computer Science.

Eric Martin Fendler, of Silver Spring, Md.; B.S. University of Maryland, 1985. Computer Science.

Katherine Elizabeth Fenerty, of Columbia, Md.; B.A. Ohio State University, 1981. Computer Science.

James Baker Ferguson III, of Baltimore, Md.; B.S.E. Duke University, 1978; M.S. University of Virginia, 1983. Electrical Engineering.

Marino A. Fernandez, of Beltsville, Md.; B.E.E. City University of New York, 1987. Electrical Engineering.

John Andre Fess, of Olney, Md.; B.S.E.E. University of Maryland, 1985. Electrical Engineering.

Richard Anthony Finck, of Bel Air, Md.; B.S. Loyola College, 1979; M.S.F., 1985. Computer Science.

Patrick Joseph Finnan, of Cinnaminson, N.J.; B.S.E.E. University of Notre Dame, 1987. Electrical Engineering.

Glenn Robert Finta, of Beltsville, Md.; B.S. Virginia Polytechnic Institute and State University, 1985. Computer Science.

Nancy Marie Finta, of Beltsville, Md.; B.S. Virginia Polytechnic Institute and State University, 1985. Computer Science.

Brian Donald Fischer, of Adamstown, Md.; B.S.E.E. Ohio Institute of Technology, 1980. Technical Management.

Charles Larry Fisher, Jr., of Randallstown, Md.; B.E.E. The Johns Hopkins University, 1985. Electrical Engineering.

George Elwill Fisher, of Woodbine, Md.; B.S. Florida State University, 1963; M.S. New York University, 1968. Computer Science.

Kenneth Paul Fittro, of Warren, Mich.; A.A. Macomb County Community College, 1979; B.A. Wayne State University, 1982. Computer Science.

Mark Clinton Flanegan, of Greenbelt, Md.; B.A. University of Pennsylvania, 1985. Computer Science.

Keith Sherwood Fletcher, of Levittown, Pa.; B.S. Antioch College, 1980. Computer Science.

Tyrone Darren Floryanzia, of Sanford, N.C.; B.S.E.E. North Carolina State University, 1986. Electrical Engineering.

Stephen Mellor Floyd, of Fairfax, Va.; A.A.S. Northern Virginia Community College, 1977; B.S. Virginia Polytechnic Institute and State University, 1980. Electrical Engineering.

Stephen Harding Foy, of Kensington, Md.; B.S. Capitol College, 1986. Computer Science.

Robert Craig Francisco, of Glen Burnie, Md.; B.S.E.E. University of Maryland, 1985. Electrical Engineering.

David G. Frankel, of Columbia, Md.; B.E.S. The Johns Hopkins University, 1967; M.S., 1973. Technical Management.

Stacey Allison Franklin, of Boston, Mass.; B.S. Howard University, 1982; M.S. The Johns Hopkins University, 1986. Technical Management.

Diane Carol Fransen, of Laurel, Md.; B.S. Merrimack College, 1988. Computer Science.

William Theodore Fredenburg, of Rochester, N.Y.; B.S.E.E. Clarkson University, 1985. Electrical Engineering.

Timothy James Frederick, of Ellicott City, Md.; B.S. Shippensburg University, 1987. Computer Science.

Deepika Gadhoke, of Columbia, Md.; B.S. University of Maryland, 1985. Computer Science.

James Vincent Galligan, of Annapolis, Md.; B.S. Towson State University, 1982. Technical Management.

Louis Albert Gambino, of Catonsville, Md.; B.S.E.E. University of Maryland, 1980. Electrical Engineering.

Michael David Garris, of Pittsfield, Pa.; B.S. Clarion University of Pennsylvania, 1986. Computer Science.

Shirley Venette Gasch, of Gambrills, Md.; B.A. Nazareth College, 1966; M.S. The Johns Hopkins University, 1983. Technical Management.

Glenn Scott Gealy, of Gordon, Neb.; B.A. Hastings College, 1974. Technical Management.

Leonard E. Gebase, of Vineland, N.J.; B.A. Rutgers University, 1972. Computer Science.

Anthony Wayne Gehr, of Westminster, Md.; B.S. University of Maryland, 1986. Computer Science.

Steven Werner Geibel, of Laurel, Md.; B.E.E.E. Stevens Institute of Technology, 1986. Electrical Engineering.

Alice Ann Genega, of Colesville, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1985. Electrical Engineering.

Jeffrey Paul Genega, of Colesville, Md.; B.S. Virginia Polytechnic Institute and State University, 1985. Computer Science.

Katherine Rita Gibson, of Catonsville, Md.; B.S. University of Maryland, Baltimore County, 1987. Computer Science.

Elaine Marie Gick, of Baltimore, Md.; B.S. University of Maryland, Baltimore County, 1986. Computer Science.

Alan Jay Gilbert, of Beltsville, Md.; B.S. University of Delaware, 1985. Computer Science.

John Michael Gillick III, of Gaithersburg, Md.; B.S. Virginia Polytechnic Institute and State University, 1986. Computer Science.

Robert Frank Glaessmann, of Glen Burnie, Md.; B.S.E.E. Pennsylvania State University, 1987. Electrical Engineering.

Sean T. Gloth, of Columbia, Md.; B.S. The Johns Hopkins University, 1979. Electrical Engineering.

Bharat Bhushan Gola, of Bowie, Md.; B.S.E.E. University of Maryland, 1985. Computer Science.

JoAnn I. Gonzales, of Hagerstown, Md.; B.S.E.E. University of Maryland, 1987. Computer Science.

Suzanne Marie Gore, of Bethel Park, Pa.; B.S. Pennsylvania State University, 1987. Applied Mathematics.

Jacqueline Ann Gouin, of Lanham, Md.; B.S. University of Maryland, 1984. Electrical Engineering.

Robert Graham, of Stevensville, Md.; B.S.E. The Johns Hopkins University, 1977. Technical Management.

Francis Paul Graves, of Baltimore, Md.; B.S.E.E. University of Maryland, 1985. Electrical Engineering.

Michelle Sharon Graves, of Trenton, N.J.; B.S. Boston University, 1978. Computer Science.

Russell J. Graves, of Springfield, Vt.; B.S. University of Pittsburgh, 1986. Computer Science.

Gary Alan Greene, of Orange, Conn.; B.S.E.E. University of Connecticut, 1982. Electrical Engineering.

Gretchen Raschelle Greene, of Severn, Md. Applied Physics.

Joseph Bernard Greene, of Alexandria, Va.; B.A. Northwestern University, 1981. Applied Physics.

Andrew Jay Grigor, of Annapolis, Md.; B.S. Virginia Polytechnic Institute and State University, 1985. Computer Science.

Edward E. Grimes, Jr., of Laurel, Md.; B.S. University of Pittsburgh, 1986. Computer Science.

Daniel J. Gross, of Columbia, Md.; B.S.E.E. Lehigh University, 1980. Technical Management.

Daniel J. Grzybowski, of Baden, Pa.; B.S.E.E. Pennsylvania State University, 1982. Electrical Engineering.

Robert Brian Guernsey, of Silver Spring, Md.; B.S. University of Maryland, 1986. Computer Science.

Pamela Lynn Gunderson, of Columbia, Md.; B.S. University of Iowa, 1986. Computer Science.

Eric Luis Hagemann, of Columbia, Md.; B.S.E. University of Central Florida, 1986. Electrical Engineering.

Cornelius John Haley, of Wilmington, Del.; B.S. University of Delaware, 1982. Computer Science.

Theresa Kilheeney Haley, of Laurel, Md.; B.S. Pennsylvania State University, 1984. Computer Science.

Charles Edward Hall, of Baltimore, Md.; B.S. Towson State University, 1984. Computer Science.

Lawrence Ora Hall, of Gaithersburg, Md.; B.S. Washington State University, 1982. Computer Science.

Robert Gerald Hall, of Lanham, Md.; B.S. University of Maryland, 1985. Computer Science.

Joseph Charles Hamel, of Middletown, N.J.; B.S. Loyola College, 1986. Computer Science.

David Eugene Hamm, of Severn, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1978. Electrical Engineering.

Peter Allen Hammer, of Frederick, Md.; B.S. Millersville University, 1985. Computer Science.

Gale LeRoy Hammond, of Columbia, Md.; B.S. University of Utah, 1980. Applied Mathematics.

Chienyung Han, of Gaithersburg, Md.; B.S. University of Maryland, 1983. Computer Science.

Katherine Sunhwa Han, of Seoul, Korea; B.S.E.E. University of Maryland, 1982. Electrical Engineering.

Sarah Lynn Hand, of Huntingtown, Md.; B.S.E.E. University of Maryland, 1987. Electrical Engineering.

Gary Steven Hansen, of Baltimore, Md.; B.S.E.E. University of Maryland, 1984. Electrical Engineering.

William Joseph Harker, of Columbia, Md.; B.S.E.E. Pennsylvania State University, 1986. Electrical Engineering.

Alan J. Harmon, of Annapolis, Md.; B.A. University of Texas at Austin, 1983. Computer Science.

Timothy Paul Harmon, of Florala, Ala.; B.S.E.E. RoseHulman Institute of Technology, 1986. Electrical Engineering.

Phillip G. Harnden, of Rockford, Ill.; B.S. Illinois State University, 1981. Computer Science.

Elizabeth Mary Harrington, of Catonsville, Md.; B.S.E.E. Western New England College, 1986. Electrical Engineering.

William Shepard Harrington, of Crownsville, Md.; B.S.E.E. Drexel University, 1986. Electrical Engineering.

Bernard T. Harris, of Columbia, Md.; A.A. Allegany Community College, 1981; B.S. University of Maryland, 1984. Computer Science.

Gay Anna Hart, of Woodbine, Md.; B.S. Towson State University, 1968. Applied Mathematics.David Eugene Haupt, of Severna Park, Md.; B.A. The Johns Hopkins University, 1972, M.A.S., 1979. Computer Science.

Genell Kay Hausauer, of Marshall, Minn.; B.A. Concordia College, 1985. Computer Science.

Carolyn Rose Hayward, of Pittsburgh, Pa.; B.E.E.E. Vanderbilt University, 1987. Electrical Engineering.

Michael Scott Hayward, of Eastlake, Ohio; B.S. Kent State University, 1985. Computer Science.

Donald Ray Heckman, Jr., of Baltimore, Md.; B.S.E.E. Drexel University, 1987. Electrical Engineering.

David Bruce Heldenbrand, of Reston, Va.; A.A. Montgomery College, 1981; B.M.Ed. James Madison University, 1976. Computer Science.

Chesley Kenneth Henderson, of Harrisonburg, Va.; B.S.E.E. Virginia Polytechnic Institute and State University, 1984. Computer Science.

Joseph Leslie Henry, of Elkridge, Md.; B.S.E.E. Louisiana State University, 1960. Technical Management.

Joseph Richard Hereau, of Gladstone, Mich.; B.S.E.E. Michigan Technological University, 1986. Electrical Engineering.

Daniel Richard Herlihy, of Edmonds, Wash.; B.S. University of New Hampshire, 1977; M.M.A. University of Washington, 1985. Technical Management.

Catherine Lynn Hettinger, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1986. Applied Mathematics.

Randall H. Hilling, of Glen Burnie, Md.; B.S. Mary Washington College, 1986. Computer Science.

Brian Lee Hillmar, of Annapolis, Md.; B.S. University of Richmond, 1981; M.S. The Johns Hopkins University, 1984. Electrical Engineering.

Brian Edward Hirsch, of Phoenix, Ariz.; B.S. University of Arizona, 1986. Applied Mathematics.

John Alexander Hoegy, of Gaithersburg, Md.; B.S. University of WisconsinMadison, 1986. Computer Science.

Thomas Wesley Holcombe, Jr., of Silver Spring, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1978. Computer Science.

Jean Theresa Holdridge, of Gonzales, La.; B.S. Louisiana State University, 1986. Computer Science.

Kathy L. Holland, of Columbia, Md.; B.S. University of Connecticut, 1982. Computer Science.

Howard Dow Holm, of Columbia, Md.; B.S. Iowa State University, 1987. Computer Science.

Brent William Holmes, of Rome, N.Y.; B.S. Clarkson University, 1986. Electrical Engineering.

Brett Randel Holt, of Laurel, Md.; B.S. Rice University, 1986. Computer Science.

Jongweon Hong, of Chicago, Ill.; B.S.E.E. University of Illinois, 1987. Electrical Engineering.

James David Hoover, Jr., of Baltimore, Md.; B.S. RandolphMacon College, 1987. Computer Science.

Francis Patrick Horan, of Drexel Hill, Pa.; B.S.E.E. Drexel University, 1987. Electrical Engineering.

Daniel Thomas Hotopp, of Dayton, Ohio; B.S.E.E. University of Dayton, 1985. Electrical Engineering.

Paul Samuel Houston, of Phoenix, Md.; B.S. Towson State University, 1981. Computer Science.

William Scott Houston, of Union, N.J.; B.S.E.E. Rutgers University, 1985. Computer Science.

LiangPing Hsu, of Taipei, Taiwan; B.S. National Taiwan University, 1982. Computer Science.

John Stuart Hull, of Catonsville, Md.; B.S. University of Maryland, Baltimore County, 1984. Computer Science.

John Morgan Hunt, of Rockville, Md.; B.A. George Washington University, 1981. Computer Science.

Kellie Ann Hunt, of Upper Marlboro, Md.; B.S. James Madison University, 1987. Computer Science.

Paula Renee Ichniowski, of Ellicott City, Md.; B.S. Loyola College, 1988. Computer Science.

Bryan Thomas Ingram, of DuQuoin, Ill.; B.S.E.E. University of Illinois, 1986. Electrical Engineering.

Nadeem Iqbal, of Clinton, Md.; B.S.E.E. N.E.D. University of Engineering and Technology, 1980. Electrical Engineering.

R. Dale Irons, Jr., of Columbia, Md.; B.S. Duke University, 1986. Computer Science.

Eyo Eyo Ita, of Las Vegas, Nev. Applied Physics.John Michael Italiano, of Staten Island, N.Y.; B.A. New York University, 1985. Computer Science.

Donald Scott Jackson, of Jarrettsville, Md.; B.S. Virginia Polytechnic Institute and State University, 1985. Technical Management.

James Marshall Jackson, of Baltimore, Md.; B.S.E.E. University of Maryland, 1985. Electrical Engineering.

John Jadik, Jr., of Clarks Summit, Pa.; B.S.E. University of Pennsylvania, 1987. Electrical Engineering.

Nasir Ahmad Jamil, of Bel Air, Md.; B.C. Heilley College of Commerce, 1980. Computer Science.

Frank Milton Johnson, of Laurel, Md.; B.S. Louisiana Tech University, 1980. Electrical Engineering.

Juan R. Johnson, of Washington, D.C.; B.S. University of the District of Columbia, 1979. Technical Management.

Kerry Johnson, of Havelock, N.C.; B.S.E.E. North Carolina State University, 1985. Electrical Engineering.

Robert Dale Johnson, of Glen Burnie, Md.; B.S.E.E. West Virginia University, 1986. Applied Physics.

Jerald James Johnston, of Baltimore, Md.; B.S. State University of New York at Binghamton, 1986. Electrical Engineering.

Craig E. Jones, of St. Louis, Mo.; B.S.E.E. Duke University, 1985. Electrical Engineering.

Robert Jackson Jones, of Germantown, Md.; B.A. Southwestern University, 1986. Computer Science.

Song Ki Jung, of Silver Spring, Md.; B.S. University of Maryland, 1987. Electrical Engineering.

Randy Todd Just, of McMinnville, Ore.; B.S. Oregon Institute of Technology, 1986. Computer Science.

Sean S. Kae, of Gaithersburg, Md.; B.A. Cornell University, 1986. Computer Science.

Janet Lee Kaminkow, of Berlin, Conn.; B.S.E.E. University of Connecticut, 1983. Computer Science.

Darius Kanga, of Rockville, Md.; B.S.E.E. CarnegieMellon University, 1981. Computer Science.

Anil Kapilashrami, of Silver Spring, Md.; B.S. University of Maryland, 1987. Computer Science.

Michel Lynn Kareis, of Arlington, Va.; B.S. Pennsylvania State University, 1985. Technical Management.

Robert George Karoly, of Baltimore, Md.; B.S.E.E. Pennsylvania State University, 1983. Electrical Engineering.

Mark Eugene Kasinger, of Columbia, Md.; B.A. Northwest Nazarene College, 1984. Applied Mathematics.

Heather Lee Kasinski, of LeRoy, N.Y.; A.S. Genesee Community College, 1985; B.A. State University of New York at Buffalo, 1987. Computer Science.

Paul Steven Kasinski, of Batavia, N.Y.; A.S. Genesee Community College, 1985; B.A. State University of New York at Buffalo, 1985. Computer Science.

Shahir KassamAdams, of Baltimore, Md.; B.S. Emory University, 1979; M.B.A. University of Pennsylvania, 1991. Computer Science.

Arthur Kaupe, of Germantown, Md.; B.S. Saint Vincent College, 1980; M.S. CarnegieMellon University, 1983. Computer Science.

Karen Michelle KeadleCalvert, of Laurel, Md.; B.S. University of Maryland, Baltimore County, 1982. Computer Science.

Kevin Patrick Kehl, of Baltimore, Md.; B.M.E. G.M.I. Engineering and Management Institute, 1984. Electrical Engineering.

Joseph William Keller, of Keyser, W.Va.; A.A. Potomac State College, 1984; B.S. West Virginia University, 1986. Computer Science.

Kimberly Ann Kellman, of Wisconsin Rapids, Wis.; B.S. University of WisconsinStevens Point, 1986. Applied Mathematics.

Vincent Paul Kijowski, of Silver Spring, Md.; B.T. Pennsylvania State University, 1978. Electrical Engineering.

Pamela Sue Kimminau, of Ellicott City, Md., B.S. Colorado State University, 1988. Computer Science.

Brian Wayne Kind, of Waukesha, Wis.; B.S.E.E. Walla Walla College, 1982. Electrical Engineering.

Gregory Alan Kirk, of Bowie, Md.; B.S. University of Maryland, 1982. Applied Physics.Scott Walker Kirvan, of Concord, Mass.; B.S. Columbia University, 1986. Computer Science.

Kana Kitazawa, of Tokyo, Japan; B.S. Northeastern University, 1987. Computer Science.

Arthur Charles Klaiss, of Glen Burnie, Md.; A.A. Pennsylvania State University, 1982; B.S., 1984. Electrical Engineering.

Jeffrey Thomas Klessig, of Columbia, Md.; B.S. Carroll College, 1980; M.S. Indiana State University, 1983. Computer Science.

Daniel Patrick Knaul, of Ellicott City, Md.; B.S. Rochester Institute of Technology, 1985. Computer Science.

Richard Frank Koen, of College Park, Md.; B.S. Purdue UniversityCalumet, 1986. Computer Science.

Kenneth Gerald Kosiorek, of Columbia, Md.; B.S. TriState University, 1984. Computer Science.

Christopher T. Kostick, of Keyser, W.Va.; A.A. Potomac State College, 1985; B.S. Marshall University, 1988. Computer Science.

Hallie Kostrinsky, of Washington, D.C.; B.S.E. Duke University, 1985. Applied Mathematics.

Charles Joseph Kresch, Jr., of Rockville, Md.; B.S.E.T. University of Houston, 1972. Technical Management.

Jeffrey Allan Kriese, of Suffern, N.Y.; B.S. Vanderbilt University, 1987. Computer Science.

Kevin John Kuehn, of Rockville, Md.; A.A. Rockland Community College, 1978; B.S. Potsdam College, 1980. Technical Management.

Paul Timothy Kuhn, of Cockeysville, Md.; B.S.E.E. Pennsylvania State University, 1985. Electrical Engineering.

Eric Irwin Kuritzky, of Beltsville, Md.; B.S. University of Maryland, 1980. Computer Science.

Darius Marian Kwiedorowicz, of Rahway, N.J.; B.S.E. Princeton University, 1982. Technical Management.

Marcelle Elaine Colton Ladd, of Germantown, Md.; B.S. Brigham Young University, 1986. Applied Mathematics.

Susan Ots LaFortune, of Winchendon, Mass.; B.S. Fitchburg State College, 1986. Computer Science.

Leslee Louise LaFountain, of Knoxville, Tenn.; B.A. University of Tennessee, 1983. Computer Science.

Theodore S. Laks, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1987. Computer Science.

Charles Gregory Lampe, of Silver Spring, Md. Technical Management.

David Wayne Lanczynski, of Columbia, Md.; B.S. Michigan State University, 1986. Computer Science.

Allan C. Lane, of Bethesda, Md.; B.S.E.E. CarnegieMellon University, 1983. Computer Science.

Paul Robert LaPointe, of Beltsville, Md.; B.S. University of Virginia, 1988. Computer Science.

Maria Louise LaRosa, of Laurel, Md.; B.E.E.E. Manhattan College, 1985. Electrical Engineering.

Paul Joseph Laskowski, of Columbia, Md.; B.S.E.E. University of Maryland, 1985; M.S. The Johns Hopkins University, 1990. Computer Science.

Lois Elizabeth Damewood Laughlin, of Princeton, W.Va.; B.S.C.S. Marshall University, 1986. Computer Science.

Timothy James Laughlin, of Grand Island, N.Y.; B.S.E.E. Clarkson University, 1986. Electrical Engineering.

Andrew Peter Lazzaro, of Columbia, Md.; B.S.E.E. Polytechnic University, 1987. Electrical Engineering.

Francis Hung Le, of Germantown, Md.; B.S.E.E. University of South Florida, 1986. Electrical Engineering.

Hien Khac Le, of Hue, Vietnam; B.S. Ohio State University, 1972; M.S., 1982. Computer Science.

Si C. Le, of Silver Spring, Md. Applied Physics. Thang Quoc Le, of Gaithersburg, Md.; B.S.E.E. George Washington University, 1988. Electrical Engineering.

Walter Harrison Leach, of Waldorf, Md.; B.S. United States Air Force Academy, 1982. Applied Mathematics.

Deborah Ann Lebair, of Laurel, Md.; B.S. College Misericordia, 1983. Computer Science.

Titus Basil Ledbetter, Jr., of Charlotte, N.C.; B.S. Howard University, 1983. Computer Science.

John Charles Lee, of Baltimore, Md.; B.S.E.E. University of Maryland, 1985. Electrical Engineering.

David Scott Lehnus, of Silver Spring, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1984. Electrical Engineering.

Maja Melton Lehnus, of Silver Spring, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1984. Electrical Engineering.

Leng Siong Lewi, of North Potomac, Md.; B.S. Essex University, 1978. Computer Science.

Noga M. Lewin, of Jerusalem, Israel; M.A. Hebrew University 1980. Computer Science.

Craig Martin Lewis, of Gaithersburg, Md.; B.S. University of Maryland, 1987. Computer Science.

Todd Leyba, of Gaithersburg, Md.; B.S. University of Maryland, 1981. Computer Science.

Edgar Glenn Lightsey, of Columbia, S.C.; B.S. Princeton University, 1986. Electrical Engineering.

David Ching-Shang Lin, of Gaithersburg, Md.; B.S.M.E. National ChungHsing University, 1972; M.S.M.E. North Carolina State University, 1980. Computer Science.

Mineshyong Lin, of Keelung, Taiwan; B.S. ChungHsing National University, 1978; M.S. University of Texas, 1985. Computer Science.

David Ling, of Newport News, Va.; B.S.E.E. Virginia Polytechnic Institute and State University, 1988. Electrical Engineering.

Ronald David Lipps, Jr., of Alexandria, Va.; B.S.E.E. University of Maryland, 1985. Electrical Engineering.

Cynthia Jean Little, of Chillicothe, Ill.; B.S. Michigan Technological University, 1986. Computer Science.

Janet Scheele Little, of Bethesda, Md.; B.A. St. John's University, 1974. Computer Science.

Zong Ci Liu, of Shanghai, China; B.S. University of Maryland, 1986. Electrical Engineering.

Scott William Lockwood, of Sandy, Utah; B.S. Brigham Young University, 1987. Electrical Engineering.

Richard Karl Loeffler, of St. Cloud, Fla.; B.S. LeTourneau College, 1986. Computer Science.

Triet Anh Lu, of Falls Church, Va.; B.S. Virginia Polytechnic Institute and State University, 1987. Computer Science.

Michael Charles Lukaszczyk, of Arbutus, Md.; B.S.E.E. The Johns Hopkins University, 1984. Electrical Engineering.

Christopher J. Ly, of Philadelphia, Pa.; B.S.E.E. Drexel University, 1987. Electrical Engineering.

Robert Carl Lydic, of Erie, Pa.; B.S.E.E. Brigham Young University, 1987. Electrical Engineering.

Roman L. Machan, of Severna Park, Md.; B.S.E.E. Rutgers University, 1986. Electrical Engineering.

Kenneth R. MacIvor, of Mt. Airy, Md.; B.S. Shippensburg University, 1987. Computer Science.

David Vincent Madonia, of Columbia, Md.; B.S.E.E. University of Florida, 1987. Electrical Engineering.

Juan Fernando Madrid, of New York, N.Y.; B.E.E.E. City College of New York, 1987. Electrical Engineering.

Eric James Magnusson, of Torrance, Calif.; B.S.E.E. Brigham Young University, 1988. Computer Science.

John Howard Mallard III, of Millersville, Md.; B.S.E.E. Lawrence University of Technology, 1986. Electrical Engineering.

Suzanne Elizabeth Malone, of Ellicott City, Md.; B.S. Virginia Polytechnic Institute and State University, 1985. Computer Science.

Michael Anthony Mancuso, of Manchester, N.H.; B.S.M.E. University of New Hampshire, 1982. Electrical Engineering.

Charles K. Mandeville, of Matawan, N.J.; B.A. University of Maine, 1974. Electrical Engineering.

Robert Emery Manners, of Walkersville, Md.; B.A. California State UniversityNorthridge, 1972. Technical Management.

Michael Joseph Manos, of Bethesda, Md.; A.A. Montgomery College, 1983; B.S. University of Maryland, 1986. Computer Science.

Daniel Mark Mantik, of Norton, Ohio; B.S. University of Akron, 1986. Computer Science.

David Carroll Marcellas, of Germantown, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1987. Electrical Engineering.

David Anthony Marchese, of Ellicott City, Md. Electrical Engineering.

James M. Margida, of Ellicott City, Md.; B.S.E.E. University of Akron, 1987. Electrical Engineering.

Herbert Philip Marshall, of Laurel, Md.; B.S.M.E. West Virginia Institute of Technology, 1983. Technical Management.

Carl Martineau, of Lansdowne, Md.; B.S. Utah State University, 1987. Computer Science.

Frank Edward Massey, Jr., of Pensacola, Fla.; B.S. Florida State University, 1970. Computer Science.

Brian Michael Masterson, of Pasadena, Md. Computer Science.

Michele Denise Matthews, of Baltimore, Md.; B.S. Frostburg State University, 1986. Computer Science.

Robert Michael May, of Bergton, Va.; B.S. University of Virginia, 1985. Computer Science.

Catherine Marie Mazur, of Alexandria, Va.; B.S. Pennsylvania State University, 1981; M.A., 1982. Computer Science.

Timothy Scott McClay, of Severna Park, Md.; B.S. United States Naval Academy, 1973. Technical Management.

James Ignatius McCloskey, of Baltimore, Md.; B.S.E.E. University of Maryland, 1984. Electrical Engineering.

Cheryl Harmon McKnight, of Beltsville, Md.; B.S. James Madison University, 1985. Computer Science.

Maureen Patricia McLaren, of Olney, Md.; B.S. CarnegieMellon University, 1985. Computer Science.

Tim Lewis McVey, of Ashland, Ohio; B.S. University of Akron, 1986. Computer Science.

Robert James Menrad, of Pasadena, Md.; B.A. Rider College, 1982.Computer Science.

Karen Christine Mergler, of Havre de Grace, Md.; B.S. University of Maryland, 1984. Computer Science.

Ellen C. Meseke, of Ellicott City, Md.; B.S. Virginia Polytechnic Institute and State University, 1988. Computer Science.

Therese Robin Metcalf, of Gardiner, N.Y.; B.S. University of Maryland, 1987. Technical Management.

Mark Robert Meyer, of Raleigh, N.C.; B.S.E.E. North Carolina State University, 1986. Electrical Engineering.

Nathan C. Meyer, of Germantown, Md.; B.S. University of Minnesota, 1978. Computer Science.

Susan Michele Meyer, of Columbia, Md.; B.E.E.E. State University of New York at Stony Brook, 1985. Electrical Engineering.

David Shields Micol, of Hillsborough, N.C.; B.S. North Carolina State University, 1987. Computer Science.

Louise Ann Miles, of Silver Spring, Md.; B.S. University of Florida, 1974. Electrical Engineering.

Steven Harold Milhiser, of Rockville, Md.; B.A. University of Virginia, 1981; M.S. University of Southern California, 1986. Computer Science.

Simon Franclin Militaru, of Constantta, Ro. Computer Science.

Andrew Norman Miller, of Arnold, Md.; B.A. Duke University, 1981. Computer Science.

Douglas William Miller, of York, Pa.; B.S.E.E. Pennsylvania State University, 1987. Electrical Engineering.

James M. Miller, of Columbia, Md.; B.S. University of Pittsburgh, 1987. Computer Science.

Jerome Miller, of Baltimore, Md.; B.S. University of Maryland, 1969. Electrical Engineering.

Eric Lee Milne, of Millersville, Md.; B.S.E.E. University of Maryland, 1987. Electrical Engineering.

Fred Albert Ninetto III, of Temple Hills, Md.; B.S. University of Maryland, 1983. Computer Science.

Danita Kay Mitchell, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1981. Electrical Engineering.

Mohsen Moini, of Germantown, Md.; B.S. University of Maryland, 1987. Electrical Engineering.

Steven Anthony Molina, of Annapolis, Md.; B.S.E.E. Pennsylvania State University, 1985. Electrical Engineering.

Beth Cheshire Moran, of Buffalo, N.Y.; B.S. State University of New York at Buffalo, 1986. Computer Science.

Wendy Marie Morgan, of Acton, Mass.; B.S. University of New Hampshire, 1986. Computer Science.

Kim D. Morgenstern, of Roscommon, Mich.; B.S. Central Michigan University, 1985. Computer Science.

Cathi L. Morris, of Gaithersburg, Md. Computer Science.

John Couper Morrison III, of Columbia, Md.; B.A. University of South Florida, 1980. Computer Science.

A. Norman Mortensen, of Manhattan, Kan.; B.S.E.E. Kansas State University, 1986; M.S.E.E., 1988. Applied Physics.

James Michael Mosley, of Mount Airy, N.C. Computer Science.

Sandra Thomas Mosley, of Pasadena, Md.; B.S. North Carolina State University, 1986. Computer Science.

Leslie Willis Munnelyn, of Largo, Md.; B.S. North Carolina Agricultural and Technical State University, 1981. Computer Science.

James Edward Muse III, of Kentwood, La.; B.S. Clemson University, 1987. Computer Science.

Kenneth Scott Myers, of Baltimore, Md.; B.S. University of Maryland, Baltimore County, 1986. Computer Science.

Sanjay Nagdev, of Silver Spring, Md. Electrical Engineering.

Harinderpal Singh Nagi, of Clinton, Md.; B.S.E.E. University of Maryland, 1988. Electrical Engineering.

Day Hwan Nam, of Fayetteville, N.C.; B.S.E.E. North Carolina State University, 1984. Electrical Engineering.

Maureen Cecilia Nash, of Columbia, Md.; B.S. Wheeling Jesuit College, 1985. Computer Science.

David Alan Neiss, of New Canaan, Conn.; B.S.E.E. University of Maryland, 1988. Electrical Engineering.

Daren Alan Nelson, of Virginia Beach, Va.; B.S. Virginia Polytechnic Institute and State University, 1987. Computer Science.

Paul Edward Nelson, of Kailua, Hawaii; B.E.E. University of Delaware, 1984. Computer Science.

John Chung Quoc Nguyen, of Towson, Md.; B.A. LaSalle University, 1985. Applied Physics.

Michael Emil Niezelski, of Catonsville, Md.; B.S.E.E. University of Pittsburgh, 1985. Electrical Engineering.

Susan Duane Noble, of Silver Spring, Md.; B.S. University of Maryland, 1985. Computer Science.

Peter Wilson Norman, of Baltimore, Md.; B.A. Western Maryland College, 1983. Computer Science.

Dennis Edward Norris, of Mt. Airy, Md.; B.S.E.E. Ohio State University, 1983. Computer Science.

Patrick James O'Brien, of Baltimore, Md.; B.S. Towson State University, 1986. Computer Science.

Gary Robert O'Bryan, of Owensboro, Ky.; B.S. Western Kentucky University, 1986. Computer Science.

Neil Hyunki Oh, of Columbia, Md.; B.E.E. Georgia Institute of Technology, 1987. Electrical Engineering.

Kevin Walter O'Malley, of Chicago, Ill.; B.S. Loyola University of Chicago, 1983. Computer Science.

John Thomas O'Masta, of Mt. Airy, Md.; A.A.S. Youngstown State University, 1982; B.S., 1984. Computer Science.

David M. Opalenik, of Woodbridge, Va.; B.S. Pennsylvania State University, 1982. Computer Science.

Paul Anthony Ostrowski, of Bel Air, Md.; B.S.E.E. University of Michigan-Dearborn, 1985. Electrical Engineering.

Henry James Ozaki, of Boc Raton, Fla.; B.S.M.E. Clemson University, 1985. Computer Science.

Siddharth Pant, of Pittsburgh, Pa.; B.Tech. Indian Institute of Technology, 1980; M.S. State University of New York at Buffalo, 1982. Electrical Engineering.

Gregory James Parker, of Sandpoint, Idaho; B.S. United States Naval Academy, 1990. Applied Physics.

Kevin Earle Parker, of Columbia, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1980. Electrical Engineering.

William James Parker, of Silver Spring, Md.; B.A. University of Delaware, 1976; M.S. Drexel University, 1984. Electrical Engineering.

Timothy John Paulin, of Escanaba, Mich.; A.A. Arizona Western College, 1979; B.A. University of Michigan, 1982. Electrical Engineering.

Kenneth Joseph Pavao, of Columbia, Md.; B.S. Providence College, 1982. Electrical Engineering.

Nancy Rose Pax, of Laurel, Md.; B.S. University of Maryland, Baltimore County, 1986. Computer Science.

Douglas Anthony Paynter, of Painesville, Ohio; B.S. Ohio State University, 1985. Computer Science.

Robert Charles Pencek, of Baltimore, Md.; B.S.E.E. The Johns Hopkins University, 1981. Computer Science.

Cindy Katherine Pepersack, of Keyser, W.Va.; A.A. Anne Arundel Community College, 1976; B.S. Capitol College, 1984. Technical Management.

James Joseph Peter, of Baltimore, Md.; B.S. Catholic University of America, 1975; M.S. Loyola College, 1985. Technical Management.

Barbara Boothman Pfarr, of Seabrook, Md.; B.A. Smith College, 1981. Computer Science.

Dung Joseph Pham, of Herndon, Va.; B.S.E.E. George Mason University, 1985; M.S. The Johns Hopkins University, 1990. Computer Science.

Dung Anh Phan, of Silver Spring, Md.; A.S. Northern Virginia Community College, 1983; B.S.E.E. University of Maryland, 1986. Electrical Engineering.

Lee John Phelps, of Baltimore, Md.; B.S.E.E. University of Maryland, 1986. Electrical Engineering.

Scott Howard Phillips, of Columbia, Md.; B.S. Oakland University, 1982. Computer Science.

William Conrad Phillips, of Elkridge, Md.; B.S.E.E. University of Maryland, 1987. Electrical Engineering.

Laura English Philpott, of Odenton, Md.; B.S. Virginia Polytechnic Institute and State University, 1985. Computer Science.

Richard Ralph Pingor, of Hampstead, Md.; B.S. New Jersey Institute of Technology, 1985. Computer Science.

Mark Michael Piwowarski, of West Seneca, N.Y.; B.S.E.E. Columbia University, 1987. Electrical Engineering.

Tim John Plessing, of Columbia, Md.; B.S.M.E. University of Nebraska, 1982; B.S. 1985. Computer Science.

Anthony Thomas Polignone, of Altoona, Pa.; B.S.E.E. Pennsylvania State University, 1987. Electrical Engineering.

Carol Ann Politi, of Bethesda, Md.; B.S.E.E. University of Maryland, 1986. Electrical Engineering.

Ann Friese Pollack, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1988; M.S.E., 1988. Electrical Engineering.

Matthew Wayne Pollack, of Columbia, Md.; B.S. Carnegie-Mellon University, 1987. Electrical Engineering.

Luis R. Portela-Arraiza, of Vega Baja, Puerto Rico; B.S.E.E. University of Puerto Rico, 1988. Electrical Engineering.

Shari L. Portzen, of Knoxville, Tenn.; B.S. University of Tennessee, 1986. Computer Science.

Margaret Ann Powell, of Greenbelt, Md.; B.S. Memphis State University, 1977. Computer Science.

William Myers Powell, of Millersville, Md.; A.A. Anne Arundel Community College, 1985; B.S. University of Maryland, 1986. Electrical Engineering.

Mary Elizabeth Predenkoski, of Middle River, Md.; B.S. University of Scranton, 1987. Computer Science.

Daniel M. Pressel, of Havre de Grace, Md.; B.S. University of Michigan, 1980. Computer Science.

Henry Reid Prewitt IV, of Laurel, Md.; B.S.E.E. University of Maryland, 1986. Electrical Engineering.

Julia Lynn Ehman Prisekin, of Laurel, Md. Computer Science.

Amy Morrison Proctor, of Olney, Md.; B.S.E.E. University of Maryland, 1986. Computer Science.

Laura Harper Pryor, of Silver Spring, Md.; B.A. University of Maryland, 1980. Computer Science.

Kenneth Joseph Pyle, Jr., of Phoenixville, Pa.; B.S.E.E. Spring Garden College, 1984. Computer Science.

Colleen Erin Rafferty, of Ellicott City, Md.; B.S.E.E. University of Michigan, 1986. Electrical Engineering.

Finn C. Ramsland, of Baltimore, Md.; B.S. Towson State University, 1986. Computer Science.

Todd Keith Rauch, of Sheperdstown, W.Va.; B.S. Shepherd College, 1987. Computer Science.

Peggy Annette Read, of Baltimore, Md.; B.S. Towson State College, 1985. Computer Science.

Steven Wayne Reeves, of Nashville, Tenn.; B.S.E.E. Rice University, 1986. Computer Science.

Amelia Clare Regan, of Baltimore, Md.; B.A.S. University of Pennsylvania, 1987. Applied Mathematics.

Raymond Windfield Reichard, of Allentown, Pa.; B.S. Pennsylvania State University, 1983. Computer Science.

John William Reichert, of Fremont, Ohio; B.S. Bowling Green State University, 1986. Computer Science.

Mark Christopher Reilly, of Columbia, Md.; B.S. University of Delaware, 1985; M.S. The Johns Hopkins University, 1990. Applied Mathematics.

Timothy Neil Reynolds, of Lanham, Md.; B.S. University of Maryland, 1983. Electrical Engineering.

Bradley James Rhone, of Burtonsville, Md.; B.S. Pennsylvania State University, 1987. Computer Science.

Tiziano R. Ricci, of Pescara, Italy; B.S. Loyola College, 1985. Electrical Engineering.

Gerald F. Ricciardi, of Thornwood, N.Y.; B.S.E.E. Columbia University, 1987. Electrical Engineering.

Lynn Ann Rich, of Ellicott City, Md.; B.S. Clarkson University, 1987. Computer Science.

Thomas Michael Richards, of Baltimore, Md.; B.S. George Washington University, 1982. Electrical Engineering.

Rodney James Ripley, of Elmira, N.Y.; B.S. Rochester Institute of Technology, 1984. Computer Science.

Karen Chemelewski Roberts, of Lancaster, Pa.; B.S. Shippensburg University, 1987. Computer Science.

Paul John Roberts, of Glen Burnie, Md.; B.S. University of Maryland, 1985. Computer Science.

Francisco Antonio Rodriguez, of Ponce, Puerto Rico; B.S.E.E. University of Puerto Rico, 1985. Electrical Engineering.

David Vincent Rose, of Arlington, Va.; B.A. Temple University, 1986. Applied Physics.

Shawn M. Rovansek, of Columbia, Md.; B.S. Pennsylvania State University, 1988. Computer Science.

Edward Rudman, of Monroeville, Pa.; B.S California Institute of Technology, 1985. Electrical Engineering.

John Anthony Ruffa, of Silver Spring, Md.; B.S.E.E. University of Maryland, 1984. Electrical Engineering.

Deborah Whidby Russell, of Baltimore, Md.; B.S. University of Maryland, 1977. Computer Science.

John Oren Rutemiller, of Annapolis, Md.; B.S. University of Maryland, 1985. Computer Science.

Jonathan A. Sakellariou, of Glen Burnie, Md.; B.S.E.E. University of Utah, 1987. Electrical Engineering.

Nicholas Scott Sanidas, of Baltimore, Md.; B.S. Loyola College, 1985. Computer Science.

Kenneth Antal Sarkady, of Annapolis, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1986. Electrical Engineering.

Paul Louis Schapiro, of Columbia, Md.; B.S. Case Western Reserve University, 1977; M.B.A. University of Baltimore, 1982. Computer Science.

Steven Jay Schifris, of Queens, N.Y.; B.S. Stockton State College, 1988. Computer Science.

Barbara Thompson Schmidt, of New Freedom, Pa.; B.S. College of Notre Dame of Maryland, 1970. Computer Science.

Diana Schmidt, of Baltimore, Md.; B.S. University of Maryland, Baltimore County, 1986. Computer Science.

Steven John Schmidt, of Baltimore, Md.; B.S. Towson State University, 1986. Computer Science.

John Edward Schmiedeskamp, of Champaign, Ill.; B.S. University of Illinois, 1987. Electrical Engineering.

Anthony Joseph Schmitt, of Baltimore, Md.; B.S. Towson State University, 1985. Computer Science.

Robert Joseph Schmucki, of Elkridge, Md.; B.A. University of Wisconsin-Madison, 1986. Computer Science.

Mayer Stephen Schofer, of Germantown, Md.; B.S. University of Maryland, 1985. Computer Science.

Deborah Perkins Schuman, of Crofton, Md.; B.S. Memphis State University, 1986. Computer Science.

Martin Andrew Schulman, of Altoona, Pa.; B.S. Case Western Reserve University, 1985; M.S. Carnegie-Mellon University, 1987. Electrical Engineering.

Bruce Ralph Schupler, of Olney, Md.; B.S. California Institute of Technology, 1975; M.A. University of Texas at Austin, 1977. Technical Management.

John Jeffrey Schveibinz, of Columbia, Md.; B.S.E.E. University of Akron, 1985. Electrical Engineering.

Howard E. Scott, of Phyllis, Ky.; B.A. Pikeville College, 1985. Computer Science.

Mark Stephen Scott, of Buffalo, N.Y.; B.S.E.E. University of Rochester, 1985. Applied Mathematics.

Michael Robert Scott, of Pittburgh, Pa.; B.S. University of Pittsburgh, 1987. Computer Science.

Todd Allan Seeman, of Warminster, Pa.; B.S. Virginia Polytechnic Institute and State University, 1986. Computer Science.

Barbara Louise Seewer, of Columbia, Md.; B.A. University of Michigan, 1985. Computer Science.

Anne Theresa Sefcik, of Baltimore, Md. Computer Science.

Cheryl Ann Sellers, of Gaithersburg, Md.; B.S. Towson State University, 1986. Computer Science.

Kyungsil Heesue Seo, of Fredericksburg, Va.; B.S. Mary Washington College, 1986. Computer Science.

Armin Sepehri, of Gaithersburg, Md.; B.S.E.E. University of Maryland, 1985. Computer Science.

Edward Chi Ming Seto, of Pasadena, Md.; B.S. University of Maryland, 1986. Computer Science.

James Mark Shannon, of Olney, Md.; Computer Science.

Willy Seymour Shapiro, of Baltimore, Md.; B.S. University of Maryland, 1981; M.A. Boston University, 1981. Computer Science.

Sigrun Kirstin Sharp, of Olney, Md. Computer Science.

Gregory James Sharpe, of Johnstown, Pa.; B.S. University of Pittsburgh at Johnstown, 1982. Technical Management.

Isaac Shefer, of Tel Aviv, Israel; B.A. Bar-Ilan University, 1987. Computer Science.

Chen Pi-er Shen, of Tainan, Taiwan. Computer Science.

Paul H. Shepherd, of Baltimore, Md.; B.F.A. Maryland Institute College of Art, 1974. Computer Science.

Gary Joseph Sikora, of Columbia, Md.; B.A.E.E. Pennsylvania State University, 1983. Electrical Engineering.

James Terry Simpson, of Simpsonville, S.C.; B.S.E.E. Clemson University, 1987. Electrical Engineering.

Rajiv Singh, of Columbia, Md.; B.S. Indian School of Mines, 1980; M.S. Southern Illinois University, 1982; M.A.S. The Johns Hopkins University, 1986. Computer Science.

Sharad Kumar Singh, of Columbia, Md.; B.S.E. University of Michigan-Ann Arbor, 1985. Computer Science.

Jaideep Sirkar, of Columbia, Md.; B.Tech. Indian Institute of Technology, 1981; M.S.E. University of Michigan, 1982. Computer Science.

Brett Carl Sivo, of Columbia, Md. Electrical Engineering.

Michael Patrick Slattery, of Catonsville, Md.; B.S.E.E. Pennsylvania State University, 1987. Electrical Engineering.

Charles Flint Smith, of Lafayette, Ind.; B.S. Purdue University, 1984. Computer Science.

Jennifer Lynn Smith, of Ellicott City, Md.; B.S.E.E. University of Akron, 1986. Electrical Engineering.

Kathryn Schultz Smith, of Westminster, Md.; B.A. Goucher College, 1987. Computer Science.

Kevin Gene Smith, of Johnstown, Pa.; B.S. University of Pittsburgh, 1986. Computer Science.

Richard Deleaf Smith, of Gaithersburg, Md.; A.S. The Johns Hopkins University, 1977; B.S., 1985. Computer Science.

Robert Douglas Snelick, of Kersey, Pa.; B.S. Clarion University of Pennsylvania, 1986. Computer Science.

Paul Rowland Snow, of Columbia, Md.; B.S.E.E. Colorado State University, 1986. Electrical Engineering.

Scott Edward Snowberger, of Chambersburg, Pa.; B.S. Shippensburg University, 1985. Computer Science.

Raymond Michael Sova, of Nanticoke, Pa.; B.S. Pennsylvania State University, 1986. Applied Physics.

Christopher Lawrence Spathelf, of Scranton, Pa.; B.S. University of Scranton, 1982; M.S. The Johns Hopkins University, 1988. Electrical Engineering.

H. P. Srirangarajan, of Shimoga, India; B.Tech. Indian Institute of Technology, 1976; M.S. University of South Carolina, 1979; M.S. University of Pittsburgh, 1981. Computer Science.

James Creston Stafford, of Wilmington, Del.; B.A. Gettysburg College, 1984. Computer Science.

Eric H. Steidl, of Fort Walton Beach, Fla.; B.S.E.E. Marquette University, 1985. Electrical Engineering.

Martin John Vianney Stich, of Kensington, Md.; B.S. Virginia Commonwealth University, 1986. Computer Science.

Deborah Lynn Stokes, of Poolesville, Md.; B.S. University of California-Los Angeles, 1987. Computer Science.

William D. Stokes, Jr., of Baltimore, Md.; M.S.E.E. University of Mississippi, 1985. Electrical Engineering.

Richard Thomas Streifel, of Laurel, Md.; B.S. University of Wisconsin-Madison, 1987. Computer Science.

Scott Edward Streit, of Columbia, Md.; A.A. Los Angeles Valley College, 1981; B.S. California State University, 1985. Computer Science.

J. William Strohecker, of Laurel, Md.; A.A.S. Paul Smith's College, 1974; B.S. State University of New York, 1978. Computer Science.

Bryan Terrence Strong, of Olympia, Wash.; B.S. United States Merchant Marine Academy, 1984. Computer Science.

Donna Jean Stuedemann, of Columbia, Md.; B.S. University of Iowa, 1986. Computer Science.

John David Sturtz, of Finksburg, Md.; B.S.E.E. University of Maryland, 1985. Electrical Engineering.

James Brian Suesse, of Pasadena, Md.; B.S. University of Maryland, Baltimore County, 1987. Computer Science.

Joseph David Suever, of Delphos, Ohio; B.S. Ohio State University, 1987. Electrical Engineering.

Christine Marie Sullivan, of Glen Burnie, Md.; B.S. St. Michael's College, 1988. Computer Science.

Stephen Thomas Sullivan, of Laurel, Md.; B.A. University of Pennsylvania, 1987. Computer Science.

David Neil Sultan, of Germantown, Md.; B.S. University of Maryland, 1985. Computer Science.

Mark Alan Summerfield, of Bowie, Md.; A.A. Howard Community College, 1983; M.A. University of Maryland, 1985. Applied Mathematics.

Steven Joseph Surdock, of Westland, Mich.; B.S.E.E. Lawrence Technological University, 1987. Electrical Engineering.

John Andrew Svrjcek, of Abingdon, Md.; B.S. University of Maryland, Baltimore County; M.A.S. The Johns Hopkins University, 1988. Computer Science.

Scott Robert Swanson, of Rochester, Minn.; B.A. University of Minnesota-Duluth, 1985. Computer Science.

Susan Clemens Swanson, of Baltimore, Md.; B.S.N. University of Maryland at Baltimore, 1982. Computer Science.

Michael Charles Tarquinio, of Rockville, Md.; B.S. University of Maryland, 1986. Computer Science.

Samuel Aaron Tarshish, of Baltimore, Md. Computer Science.

Anthony Taylor, of Laurel, Md.; B.S. University of Connecticut, 1982. Computer Science.

Bruce Edward Taylor, of Potomac, Md.; B.A.C.S. Brown University, 1986. Computer Science.

Christopher Arthur Taylor, of West Chester, Pa.; B.S. Villanova University, 1986. Computer Science.

Frederick Douglas Taylor, Jr., of Richmond, Va.; B.S. Bowie State University, 1985. Computer Science.

Michelle Stevenson Thomas, of Tuscaloosa, Ala.; B.S. Stillman College, 1985. Computer Science.

Jeananne Thoreson, of Laurel, Md.; B.S. Virginia Polytechnic Institute and State University, 1987. Computer Science.

Michael Joseph Tierney, of Laurel, Md.; B.S. University of Maryland, 1988. Computer Science.

Bunny J. Tjaden, of Rockville, Md.; B.A. Cedar Crest College, 1967; M.S. The Johns Hopkins University, 1970. Computer Science.

Barbara Mae Tobias, of Baltimore, Md.; A.S.C.S. Pennsylvania State University, 1983; B.S.E.E., 1986. Electrical Engineering.

Stephanie R. Toms, of Pasadena, Md.; B.S.E.E. University of Maryland, 1985. Electrical Engineering.

Daryl Charles Torgeson, of Joplin, Mo.; B.S. Capitol College, 1987. Applied Mathematics.

William J. Tracey, of Yonkers, N.Y.; B.S.E.E. Rochester Institute of Technology, 1987. Computer Science.

Douglas Ward Trainer, of Silver Spring, Md.; B.S. University of Maryland, 1979. Computer Science.

Mai-Huong Christine Tran, of Chantilly, Va.; A.S. Northern Virginia Community College, 1984; B.S.E.E. George Washington University, 1986. Electrical Engineering.

Roland Morris Travis, of Ellicott City, Md.; B.A. Mississippi State University, 1964; M.Div. Reformed Theological Seminary, 1975; D.Min. Vanderbilt University, 1978. Technical Management.

Theodore J. Trela, of Bethesda, Md.; B.A. University of Massachusetts, 1985. Computer Science.

Carlos Antonio Trujillo-Gerboles, of Laurel, Md.; B.S.C.E. University of Puerto Rico, 1986. Computer Science.

Richard David Tschiegg, of Columbia, Md.; B.S.M.E. University of Akron, 1983. Applied Physics.

Lisa Karen Tucker, of Crofton, Md.; B.S. Michigan State University at Buffalo, 1987. Electrical Engineering.

John Lee Tucker, Jr., of Shady Side, Md.; B.S.A.E. University of Maryland, 1967; M.B.A. State University of New York, 1971. Electrical Engineering.

Gregory Eugene Turner, of Gambrills, Md.; B.S. Mary Washington College, 1985. Applied Mathmatics.

Gregory Alan Turner, of Mt. Vernon, Ohio; B.S. Bowling Green State University, 1986. Computer Science.

Kevin Ross Turpie, of Columbia, Md.; B.S. University of Maryland, 1986. Applied Mathmatics.

Christopher Stephen Turton, of Buffalo, N.Y.; B.S.E.E. State University of New York, 1988. Electrical Engineering.

Ronald Eugene Twist, of Linthicum, Md.; B.S.E.E. Marquette University, 1973. Electrical Engineering.

Marian Saben Ulman, of Burtonsville, Md.; B.S. Virginia Technological Institute and State University, 1984. Electrical Engineering.

Glenn Leonard Unger, of Burtonsville, Md.; A.A. Catonsville Community College, 1981; B.S.E.E. University of Maryland, 1985. Electrical Engineering.

John Thomas Unkenholz, of Columbia, Md.; B.S. George Washington University, 1986. Electrical Enginering.

Aaron David Valdivia, of Columbia, Md.; B.S.E.E. Southern Illinois Univesity, 1981. Electrical Engineering.

Alan Cole Van Ness, of Towanda, Pa.; B.S. Pennsylavania State University, 1987. Computer Science.

Daniel Eric Vaughan, of Pittsburgh, Pa.; B.S. University of Pittsburgh, 1985. Computer Science.

Mary Ellen Verona, of Rockville, Md.; B.S. University of Dayton, 1968; M.Ed. University of Maryland, 1986. Computer Science.

Steven Ira Vinner, of Silver Spring, Md.; B.S.E.E. University of Maryland, 1983. Electrical Engineering.

John Kenneth Vlahakis, of Rockville, Md.; B.A. Bucknell University, 1975. Computer Science.

Kenneth Khiem-Duc Vu, of Fairfax, Va.; B.S.E.E. Virginia Polytechnic Institute and State University, 1988. Electrical Engineering.

Elizabeth Bieber Wade, of Buckeystown, Md.; B.S. University of Maryland, 1972. Technical Management.

Joseph Donald Wagner, of Cockeysville, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1987. Electrical Engineering.

Natalie Maria Wallace, of New Freedom, Pa.; B.S. Loyola College of Maryland, 1985. Electrical Engineering.

Dale Louis Walters, of Damascus, Md.; B.S. Xavier University, 1964. Technical Management.

Chee-Hsien Wan, of Dallas, Texas; B.A. State University of New York, 1985. Computer Science.

Gary Lei Wang, of Toronto, Ontario, Canada; B.S.E.E. University of Maryland, 1981. Computer Science.

Sherry Denise Ware, of Suffolk, Va.; B.S. Norfolk State University, 1985. Computer Science.

Ronald Carlos Warehime, of Massillon, Ohio; B.S. University of Akron, 1985. Computer Science.

Robert Douglas Warthen, of Emmitsburg, Md.; B.S. Virginia Polytechnic Institute and State University, 1988. Computer Science.

John Francis Waters, Jr., of Hagerstown, Md.; B.S.E.E. West Virginia University, 1987. Electrical Engineering.

Ralph Watson, of Baltimore, Md.; B.S. Loyola College, 1987. Applied Mathematics.

Barry Jay Weber, of Columbia, Md.; B.S.E.E. Tufts University, 1987. Electrical Engineering.

Todd W. Wegman, of Woodville, Ohio; B.S.E.E. University of Toledo, 1985. Electrical Engineering.

Timothy Robert Weil, of Takoma Park, Md.; B.A. Immaculate Heart College, 1976. Computer Science.

Stephen Patrick Welby, of Garnerville, N.Y.; B.S. Cooper Union, 1987; M.S.B.A. East Texas State University, 1988. Applied Mathematics.

Vanoy C. Welch, of Pasadena, Md.; B.S.E.E. New Mexico State University, 1986. Electrical Engineering.

Randall William Welfley, of Germantown, Md. Computer Science.

Daniel Herman Wenzlick, of Linthicum, Md.; B.S.E.E. Ohio Northern University, 1986. Electrical Engineering.

Michael J. West, of Marlton, N.J.; B.A. Rutgers University, 1986. Computer Science.

Laura Weston, of Bristol, R.I.; B.S.E.E. Pennsylvania State University, 1987. Electrical Engineering.

Kenneth Paul Westrick, of Hastings, Pa.; B.A. Saint Francis College, 1986. Computer Science.

Eric R. White, of Sumter S.C.; B.A. University of Virginia, 1983; M.B.A. College of William and Mary, 1985. Computer Science.

David Lyle Whitmore, of Pasadena, Md.; B.S. University of Akron, 1984. Computer Science.

Keith Lee Wible, of Jesup, Md.; B.S. Pennsylvania State University, 1983. Computer Science.

David Ira Wilens, of Herndon, Va.; A.S. Pennsylvania State University, 1981; B.S., 1982. Electrical Engineering.

R. Allen Wilkinson, of Lewisville, Pa.; B.S. Clarion University, 1986. Computer Science.

Stephen Allan Williams, Walkersville, Md.; A.S. Midlands Technical College, 1979; B.S. Clemson University, 1981. Computer Science.

Zane Vincent Wingard, of Birmangham, Ala.; B.S.E.E. Auburn University, 1987. Electrical Engineering.

Wendy Ann Winner, of Concordville, Pa.; B.A. Franklin and Marshall College, 1984. Computer Science.

Carl Brian Wischhusen, of Jarrettsville, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1987. Electrical Engineering.

Robert Francis Wittman, of Apopka, Fla.; B.S.E. Tulane University, 1984. Computer Science.

Diane M. Wolfe, of Germantown, Md.; B.S. Pennsylvania State University, 1988. Computer Science.

George John Scott Wolter, of Iselin, N.J.; B.S.E.E. Rensselaer Polytechnic Institute, 1985. Electrical Engineering.

Andrew Won, of Beltsville, Md.; B.S.E.E. George Washington University, 1984. Electrical Engineering.

Kwok To Wong, of Columbia, Md.; B.S.E.E. Temple University. Technical Management.

Andrew David Wood, of Glen Burnie, Md.; B.S.E.E. Georgia Institute of Technology, 1986. Electrical Engineering.

Carmel Anne Wood, of Bowie, Md.; B.E.S. The Johns Hopkins University, 1985. Electrical Engineering.

Donald Woodbury, of Jessup, Md. Technical Management.

Cynthia Leigh Woods, of Elkridge, Md.; A.A. Anne Arundel Community College, 1981; B.S. University of Baltimore, 1986. Computer Science.

Yvette Cordelia Woods, of Glen Burnie, Md.; B.S. Clemson University, 1985. Computer Science.

Alan Robert Wright, of Newark, N.J.; B.S. Kean College, 1985. Computer Science.

Brian Keith Wright, of Columbia, Md.; B.S.E.E. University of Maryand, 1986. Electrical Engineering.

Gregory Lynn Wright, of Columbia, Md.; B.S.E.E. University of Notre Dame, 1987. Electrical Engineering.

Edward Young Wu, of Gaithersburg, Md.; B.S. University of Maryland, 1986. Computer Science.

Kevin Wayne Yant, of Odenton, Md.; B.S. University of Maryland, 1982. Computer Science.

Tieng Kim Yap, of Springfield, Va.; B.S.E.E. Illinois Institute of Technology, 1988. Electrical Engineering.

Denise Elbert Yarema, of Baltimore, Md.; B.S. Drexel University, 1985. Computer Science.

Por-Wun Yeh, of Columbia, Md.; Ph.D. Massachusetts Institute of Technology, 1984. Computer Science.

Paula Jean Young, of Sterling, Va. Computer Science.

Simone Maria Youngblood, of Ellicott City, Md.; B.A. Fitchburg State College, 1984. Computer Science.

Choor C. Yu, of Bel Air, Md. Computer Science.

Yiwei Yu, of New Carrolton, Md.; B.S.E.E. University of Maryland, 1987. Computer Science.

Susan Zammit, of Wheaton, Md.; B.S.E.E. University of Maryland, 1987. Electrical Science.

Richard Joseph Zebrowski, of Columbia, Md.; B.S.M.E. Marquette University, 1984. Computer Science.

Tracy Sue Zimmerman, of Longmeadow, Mass.; B.A. Goucher College, 1984; M.S. The Johns Hopkins University, 1987. Technical Management.

Paul John Zohorsky III, of Columbia, Md.; B.S. United States Naval Academy, 1980. Technical Management.

## *Masters of Science in Engineering in The G.W.C. Whiting School of Engineering*

Samira Abbasi, of Dhaka, Bangladesh. Geography and Environmental Engineering.

Garrick Ahn, of East Brunswick, N.J. Electrical and Computer Engineering.

Baha Aydin Akbora, of Istanbul, Turkey; B.S. Bogazici Universitesi, Turkey, 1988. Civil Engineering. *Computational Methods in Optimization of Structural Frames under Multiple Stress Constraints.*

Lisa Michelle Beale, of Columbia, Md.; B.S. Howard University, 1988. Computer Science.

Sarah Ellen Bobbin, of Ellicott City, Md.; B.S. Lafayette College, 1981. Materials Science and Engineering. *Determination of the Flexural Modulus of Thin Films From Laser Ultrasonic Measurement of the First Arrival of the Symmetric Lamb Wave.*

Kingshuk Bose, of West Bengal, India. Mechanical Engineering. *Crack Growth under Mixed Mode Conditions.*

James Joseph Carrig, Jr., of Rome, N.Y.; B.S. Syracuse University, 1990. Electrical and Computer Engineering.

Yingbin Chen, of Baltimore, Md. Electrical and Computer Engineering.

Dominic Dough-Ming Cheung, of Alhambra, Calif.; B.S. University of California-Berkeley, 1988. Biomedical Engineering. *Automated Image Analysis of Cochlear Nerve Fibers.*

Marc Harry Cohen, of Baltimore, Md. Biomedical Engineering. *Analog VLSI Implementation of an AutoAdaptive Synthetic Neural Network for RealTime Separation of Independent Signal Sources.*

Debra L. Cook, of Baltimore, Md. Mathematical Sciences.

Marc A. Cordaro, of Flushing, N.Y.; B.E. The Cooper Union School of Engineering, 1986. Biomedical Engineering. *A Personal Computer-Based Display of Three-Dimensional Tongue Surface Dynamics.*

Richard Scott Cost, of Nutley, N.J.; B.A. Colgate University, 1988. Computer Science. *An Instance Based Approach to Learning Classes with Symbolic Features.*

William Bradford Cross, of Annapolis, Md.; B.S. University of Maryland, 1984. Civil Engineering.

Hristos Anthanasios Davatzikos, of Kifissia, Greece. Electrical and Computer Engineering.

Robert P. Dobrow, of Brookline, Mass. Mathematical Sciences.

Christoforos E. Economakos, of Kifissia, Greece. Electrical and Computer Enginering.

Angela Kay Eleazer, of Stockton, Calif.; B.S. University of CaliforniaDavis, 1989. Computer Science.

Michael Lawrence Falk, of Massapequa, N.Y.; B.A. The Johns Hopkins University, 1990. Computer Science.

Ruqiang Feng, of Shanghai, Peoples Republic of China; B.E. Shanghai University of Science and Technology, 1982; Certificate, 1986. Mechanical Engineering. *The Dynamic Compressibility of Elastohydrodynamic Lubricants.*

Sreenivasa Rao Gorti, of Bombay, India. Civil Engineering. A Graphical Surface-Navigation Technique for Multi-objective Programming Problems.

Michael Alan Guttman, of Baltimore, Md.; B.S. The Johns Hopkins University, 1985. Biomedical Engineering. *Contour Estimation in Tagged Cardiac Magnetic Resonance Images.*

Yan-Hua David He, of Guangzhou, China; M.S. Oklahoma State University, 1988. Mathematical Sciences.

Vincent Ray Hill, of Towson, Md. Geography and Environmental Engineering.

Darren Lee Hitt, of Perry Hall, Md. Mechanical Engineering. *Thin-Layer Thermocapillary Flows Driven by Thermal Radiation.*

David H. Hsu, of Fairfax, Va. Electrical and Computer Engineering.

Jonathan Simon Kay, of Gaithersburg, Md. Computer Science. *An Empirical Study of Using Certification Trials to Achieve Software Fault Tolerance.*

Paroo Dolar Koya, of Baltimore, Md. Biomedical Engineering.

Nagendra Kumar, of Meerut, India. Electrical and Computer Engineering.

Murray Lantner, of Brooklyn, N.Y.; B.S. The Johns Hopkins University, 1990. Geography and Environmental Engineering.

Seung-Joon Lee, of Seoul, Korea; B.S. Brown University, 1989. Electrical and Computer Engineering.

Matthew Jerome Lesho, of Ellicott City, Md.; B.S. The Johns Hopkins University, 1989. Biomedical Engineering. *Dynamic Diameter Responses of Rat Intestinal Venules to Prolonged, Stepwise Perturbations in Venular Pressure.*

Robert Scott Lillard, of Lutherville, Md; B.S. University of Maryland, 1986. Materials Science and Engineering. *A Novel Method for Generating Local Electrochemical Impedance Spectroscopy.*

Neil Edward Lofgren, of Berwyn Heights, Md. Electrical and Computer Engineering.

Dennis C. Lai, of Columbus, Ohio; B.S. The Johns Hopkins University, 1990. Materials Science and Engineering. *Nondestructive Examination of Case Hardened Layers by Means of Eddy Currents.*

Jen-Jen Lung, of Elmhurst, N.Y.; B.S. The Johns Hopkins University, 1990. Computer Science.

Kenneth Stewart Macturk, of Berwyn Heights, Md.; B.S. The Johns Hopkins University, 1987. Materials Science and Engineering. *The Characterization of Compressive Properties of High Performance Fibers.*

Donna Jean Mayton, of Petersburg, Va; B.A. University of Virginia, 1986. Materials Science and Engineering. *Optical Beam Deflection Studies of Microwave Absorption and Field Distribution in Dipolar Fluids.*

Robert Lenard Moore III, of Westminster, Md.; B.S. University of Maryland, Baltimore County, 1989. Mathematical Sciences.

Ramaswamy Murali, of Bangalore, India. Electrical and Computer Engineering.

Osamu Nakagome, of Tokyo, Japan; B.E. Hokkaido University, 1984. Geography and Environmental Engineering.

George John Papamichail, of Athens, Greece. Mathematical Sciences.

Wai-Tat Peter Poon, of Hong Kong; B.S. University of Calgary, 1988. Biomedical Engineering. *Adaptive Filtering of TimeVarying Evoked Potentials.*

Mark Richards, of Tinton Falls, N.J.; B.S. The Johns Hopkins University, 1988. Biomedical Engineering. *The Development of Poly(phosphoesters) for Biomedical Applications.*

Michael Rooney, of Clifton Park, N.J. Materials Science and Engineering. *Nondestructive Evaluation of Structural Bonds for Large Solid Rocket Motor Applications.*

Veljko Roškar, of Zagreb, Yugoslavia. Chemical Engineering. *Dielectric Behavior of Mixtures in the Liquid and Critical Regions.*

Jason Seth Rothman, of Baltimore, Md.; B.S. Washington University of St. Louis, 1988. Biomedical Engineering.

Kausik Sarkar, of Calcutta, India. Mechanical Engineering. *A Numerical Study of The GinzburgLandau Equation In Thermocapillary Flow.*

Dinesh Srivastava, of Allahabad, India. Mechanical Engineering. *Production of Fluorescent Particles for Flow Visualization.*

Lisa Carol Sword, of Davidsonville, Md.; B.M.E. University of Delaware, 1985. Biomedical Engineering. *A Methodology for the Dynamic Characterization of Collagen Morphology in Tissue Derived Biomaterials.*

Chen Chia Wang, of Kaohsiung, Taiwan, Republic of China; B.S. National Taiwan University, 1988. Electrical and Computer Engineering.

Todd Mark Wilson, of Dubois, Pa.; B.S. Case Western Reserve University, 1987. Chemical Engineering. *Electrodeposition of Aluminum from Supercritical Organic Electrolytes.*

Tsung Chih Winston Woo, of New York, N.Y. Biomedical Engineering. *Fractals in AuditoryNerve Spike Trains.*

Chihsien Wu, of Changwa Hsien, Peoples Republic of China. Geography and Environmental Engineering.

Kewei Yang, of Beijing, Peoples Republic of China; B.S.E. Tsinghua University, 1986. Electrical and Computer Engineering.

Xin Yu, of Beijing, Peoples Republic of China. Electrical and Computer Engineering.

Lihui Zhang, of Changsha, Peoples Republic of China. Mathematical Sciences.

## *Masters of Arts in The G.W.C. Whiting School of Engineering*

Harry A. Bowman, of Jacobus, Pa. Geography and Environmental Engineering.

Andrea Maria Buckley, of Ludwigshafen, Germany. A.A. Daytona Beach Community College, 1979; B.S. University of Florida, 1981. Geography and Environmental Engineering. *Analysis of a Sediment Core from a Cypress Swamp in Delaware with a Description of Habitat Succession.*

Robert Lincoln Humphreys, of Salem, Va. Geography and Environmental Engineering. *Accumulation, Regulation and the Political Economy of Third World Urban Housing.*

David Young Parker, Jr., of Mt. Juliet, Tenn. Geography and Environmental Engineering. *Removal of Trihalomethane Precursors By Microfiltration.*

Francine Mithra Steininger, of Washington, D.C.; B.A. Barnard College, 1984. Geography and Environmental Engineering. *Male-Specific Coliphage as Indicators of Fecal Contamination in Chesapeake Bay Soft Shell Clams.*

## *Masters of Arts in The School of Arts and Sciences*

Susan Aaronson, of Great Neck, N.Y.; B.A. State University of New York at Binghamton, 1976; M.I.A. Columbia University, 1978. History.

Christine Marie Adams, of Mankato, Minn.; B.A. University of Minnesota, 1985; M.A. George Washington University, 1987. History.

Stephen Bernard Adams, of Palo Alto, Calif.; B.A. University of CaliforniaDavis, 1977; M.B.A. University of Michigan, 1982. History.

Kamran Asdar Ali, of Karachi, Pakistan; B.A. University of Karachi, 1987. Anthropology.

Madeleine Stein Allen, of Baltimore, Md.; B.A. The Johns Hopkins University, 1985. Writing Seminars. *The Girl in the Mirror and Other Stories.*

Patrick Paul Kaduma Asea, of Kampala, Uganda; B.A. Makerere Univesity, Uganda, 1986; M.A. Bocconi University, Italy, 1988. Economics.

William Joseph Astore, of Brockton, Md.; B.S. Worcester Polytechnical Institute, 1985. History of Science. *American Catholic Responses to Evolutionary Theories, 1845-75.*

Christopher McNeil Bailey, of Charlottesville, Va; B.A. College of William and Mary, 1989. Earth and Planetary Sciences.

Jennifer Marie Bauman, of Salt Lake City, Utah; B.A. University of Utah, 1987. History of Art.

Samuel Davidson Bedinger, of Baltimore, Md.; B.A. California State University-Northridge, 1987. Sociology.

Judy Alice Bieber, of Kenilworth, N.J.; B.A. Rutgers University, 1987. History.

Joannne Biletta, of Silver Spring, Md.; B.A. George Washington University, 1987. Philosophy.

Jeffrey Seth Blitz, of Ridgewood, N.J.; B.A. The Johns Hopkins University, 1990. Writing Seminars. *No One May Touch the King of Corea.*

Stephen Brock Blomberg, of Monroe, N.C.; B.S. University of Tampa, 1989. Economics.

Judit Bodnar, of Budapest, Hungary; M.A. Karl Marx University, 1986. Sociology.

Jozsef Martha Borocz, of Budapest, Hungary. Sociology.

Claudia Desantis Bowe, of Ruxton, Md.; B.A. Yale University, 1979. Writing Seminars. *Relative Losses.*

David Bresch, of Briarcliff, N.Y.; B.A. Columbia University, 1988. Political Science. *Physics and Quantitative International Relations Research.*

Joyce S. Brown, of Baltimore, Md.; B.A. Oberlin College, 1961; M.A.T. The Johns Hopkins University, 1962; M.A. St. Mary's Seminary and University, 1971. Writing Seminars. *Raised.*

Teresa Marie Buerkle, of Rochester, N.Y.; B.A. New York University, 1984. Writing Seminars. Where We Start From.

Daniela Gemma Capra, of Santhia, Italy. Hispanic and Italian Studies.

Annalisa Castaldo, of Newtown Square, Pa.; B.A. Wellesley College, 1988. English.

Iris ShunRu Chang, of Urbana, Ill.; B.S. University of Illinois, 1989. Writing Seminars. *The Poetry of Science.*

WenJyh Chiu, of Taipei, Taiwan, Republic of China.; B.B.A. National Taiwan University, 1987. Economics.

YoungKeun Chung, of Seoul, Korea; B.Econ. Korea University, 1983. Economics.

Susan Lynn Dauber, of Oakland, N.J.; B.A. The Johns Hopkins University, 1986. Sociology.

Samuel Robert Davis, of Towson, Md.; B.S. University of CaliforniaLos Angeles, 1985. Earth and Planetary Sciences.

Michael Patrick Dee, of Manchester, Mo.; B.A. Amherst College, 1981. English.

Alexandra Draganescu, of San Jose, Calif.; B.S. University of CaliforniaBerkley, 1988. Chemistry.

Sasa Dukan, of Zagreb, Yugoslavia. Physics and Astronomy.

Ian Michael Fried, of Highland Park, Ill. Political Science.

David Paul Friedlander, of Silver Spring, Md.; B.A. Washington University of St. Louis, 1986. Physics and Astronomy. *An Examination of Comet Halley's Albedo at Varying Heliocentric Distances.*

Mark Joseph Friedman, of Silver Spring, Md. History. *Magnolias and Mayhem: The Civil Rights Movement in Mississippi Remembered.*

Norman Philip Friesen, of Winnipeg, Canada. German.

Annette Frisch, of Ludwigshafen, Germany. Political Science. *Environmental Degradation in Developing Countries: Causes and Policy Approaches.*

Bao Z. Fu, of Cholon, Viet Nam.; B.A. University of Nevada, 1986; M.A. Northwestern University, 1988. Philosophy.

Qingfen Gan, of Tianjin, Peoples Republic of China. Chemistry.

Carmen GarciaRasilla, of Valladolid, Spain. Hispanic and Italian Studies.

Maria Elizabeth Gough, of Melbourne, Australia. History of Art.

Lei Guang, of Anhui, Peoples Republic of China.; Certificate, Huanghe University, 1987; M.A. Luoyang Foreign Languages University, 1988. Political Science. *The Making of a Reversed Representation System.*

Patricia Welsh Gucer, of Lutherville, Md; B.A. Dumbarton College of Holy Cross, 1963; M.S. The Johns Hopkins University, 1979. Sociology.

Roberto Gutierrez, of Bogóta, Columbia; Diploma De Inqiniero, Universidad De Los Andes, 1986. Sociology.

Patrick Hagopian, of London, England; B.A. University of Sussex, 1982; M.A. University of Pennsylvania, 1989. History.

Laura Vinson Harper, of Annapolis, Md.; B.A. University of Rochester, 1985. Chemistry.

DeSales Harrison, of West Palm Beach, Fla.; B.A. Yale University, 1990. Writing Seminars. Heads of Wild Indigo.

Peter Harry Henderson, of Glenwood, Md.; B.A. The Johns Hopkins University, 1982; M.P.P. Harvard University, 1984. History.

Igor Fedor Herbut, of Beograd, Yugoslavia. Physics and Astronomy.

Anne Patricia Hillstrom, of Rockville, Md.; B.S. Virginia Polytechnic Institute and State University, 1983. Psychology.

Tatsuyoshi Hirano, of Niiza Saitama, Japan; B.A. Hitotsubashi University, 1984. Economics.

Mary Anne Hoppe, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1988. Mathematics.

Sharyn Elise Horowitz, of Yardley, Pa. Writing Seminars. Evolution.

Tomohike Inui, of Tokyo, Japan; B.E. Hitotsubashi University, 1985. Economics. Wage Rigidity and Sectoral Adjustment.

Jose Iehezkel Itzigsohn, of Jerusalem, Israel. Sociology.

Elizabeth Margaret Jones, of Ottawa, Ontario, Canada; B.A. McMaster University, 1988. Psychology.

Howard Gist Jones III, of Tucson, Ariz.; B.S. United States Air Force Academy, 1985. History.

John Seeberg Jorgensen, of Gaithersburg, Md. Near Eastern Studies.

Matthew Isaac Joslyn, of Grand Junction, Colo.; B.S. Friends University, 1990. Writing Seminars. Scientific Perspectives in Health, Sociology, and History.

Han Yung Jung, of Seoul, Korea; B.E. Sung Kyun Kwan University, Korea, 1981. Economics.

David John Keavney, of Norwalk, Conn. Physics and Astronomy.

Joshua Christopher Kendall, of New York, N.Y.; B.A. Yale University, 1984. Humanities.

Richard Lewis Campbell Keyser II, of Crozet, Va.; B.S. College of William and Mary, 1982. History.

Kathleen Jane Kingma, of Marietta, Ohio.; B.S. Marietta College, 1984; M.A. Ohio State University, 1989. Earth and Planetary Sciences.

James Gordon Kirklin, of Tiffin, Ohio. Earth and Planetary Sciences.

Kim Marie Klein, of Elgin, Neb.; B.A. Creighton University, 1987. History.

Anthoula Komninou, of Athens, Greece.; Diploma, Aristotle University of Thessaloniki, Greece, 1982. Earth and Planetary Sciences.

Ruth Katheryn Krekeler, of Cedar Rapids, Iowa; B.A. Cornell University, 1988. German.

Beth Allyn Krizek, of Silver Spring, Md.; B.S. Duke University, 1988. Chemistry.

Ashok Kumar, of Ranchi, India. Physics and Astronomy.

David Alan Kyle, of Naples, Fla.; B.A. Loyola University of Chicago, 1984. Sociology.

Edward H. Sparrow, of Detroit, Mich.; B.A. Princeton University, 1987. Writing Seminars. *Vampire Deer and Muffled Elephants.*

Guenho Lee, of Incheon, Korea; B.S. Yonsei University, Korea, 1986; M.S., 1988. Physics and Astronomy.

Seunghun Lee, of IriJeonbuk, Korea; B.S. Korea University, 1985; M.E., 1987. Physics and Astronomy.

Seyong Lee, of Seoul, Korea; B.A. Seoul National University, 1982; M.A., 1985. Sociology.

TaekYu Lee, of Seoul, Korea; B.S. Roger Williams College, 1988. Chemistry.

ChiaJyi Liu, of ChiaYi, Taiwan, Republic of China; B.S. National Taiwan University, 1984. Chemistry.

Kenneth John Taylor Livi, of Franklin Square, N.Y.; B.S. State University of New York at Stonybrook, 1980; M.S., 1983. Earth and Planetary Sciences.

Ming Lu, of Beijing, Peoples Republic of China. Chemistry.

Richard E. Ludwick, Jr., of Libertytown, Md.; B.A. Gettysburg College, 1973. Economics.

Phillip Bruce Lund, of Bristol, Ind.; B.A. Indiana University, 1985. Writing Seminars. The Order of Forgetting.

Junling Ma, of Lingchuan, Peoples Republic of China. Political Science. The SinoBritish Negotiation Over the Future of Hong Kong and the Future of Hong Kong After the Agreement.

Tay-Cheng Ma, of Taipei, Taiwan, Republic of China; B.A. Chinese Cultural University, 1979; M.A. Soochow University, 1981. Economics.

Jennifer Paulette Macke, of Cincinnati, Ohio; B.A. College of Wooster, 1984. Biology.

Mohammad Mahroof Tahir, of Palandri, Pakistan. Chemistry.

Jennifer Collins Manion, of Windsor, Conn.; B.A. Wellesley College, 1987. Philosophy.

Curtis Michael Masiello, of Woodstock, Conn.; B.A. University of Connecticut, 1982. Political Science. The *Past as Prelude: The Defense Debate in the Cold War.*

Mark Joseph May, of Rocky River, Ohio; B.S. Purdue University, 1989. Physics and Astronomy.

Anne Laura McClanan, of Virginia Beach, Va.; B.A. Columbia University, 1989. History of Art.

Bonnie Sue McElhinny, of Evans City, Pa.; B.Phil. University of Pittsburgh, 1987. English. *The Rational Romantic? The Imperatives of, and Analytical Categories in, Literary Criticism and Mary Wollstonecraft's Letters Written During a Short Residence in Sweden, Norway, and Denmark.*

Frederick Charles Merkel, of Ambler, Pa.; B.A. University of Delaware, 1989; B.S., 1989. Psychology.

Ulrike Barbara Moetzel, of Hilzingen, Germany. Political Science.Budget Politics: *The Background and Development of the Balanced Budget and Emerging Deficit Control Act of 1985.*

Christopher Anthony Moffatt, of Toronto, Canada; B.S. University of Toronto, 1989. Psychology.

Francesco Paolo Mongelli, of Rome, Italy; Certificato Libera, Universita Internazionale, 1984. Economics.

Hideaki Mori, of Nagasaki, Japan; B.A. Keio University, 1983; M.A. International Christian University, 1987. Economics.

Dean Mozetic, of Koper, Yugoslavia. Physics and Astronomy.

Douglas Patrick Munro, of Salisbury, England; M.A. University of Edinburgh, Scotland, 1986. Political Science. *The Nationalization of Southern Politics: Southern Democratic Senators, from Eisenhower to Bush.*

Muslehuddin, of Islamabad, Pakistan. Economics.

Bernadette Russell Naden, of Uniontown, Pa.; B.A. Dickinson College, 1980. Writing Seminars. *Selected Hardwoods, A Collection of Poems.*

Paul Neave Nelles, of Vancouver, British Columbia, Canada; B.A. University of British Columbia, 1987. Humanities.

Gerard Anthony O'Donovan, of Galway, Ireland; B.A. University College Galway, 1983; M.A., 1988. Writing Seminars. *Columbus Rides Again.*

Dawn O'Rourke, of Brooklyn, N.Y.; B.S. State University of New York at Albany, 1989. Chemistry.

Kathleen Roseanna O'Toole, of Wilmington, Del.; B.A. Catholic University of America, 1974. Writing Seminars. *Canticles in Ordinary Time.*

John Frederick Packham, of Oklahoma City, Okla.; B.A. University of Oklahoma, 1982. Sociology.

JooHo Park, of Seoul, Korea; B.A. Seoul National University, 1988. Economics.

Alison Marie Parker, of Los Angeles, Calif. History.

Thomas Cantzon Paul, of Cocoa Beach, Fla.; B.S. Georgia Institute of Technology, 1989. Physics and Astronomy.

James Ellis Porter, of Hamilton Square, N.J.; B.A. Rider College, 1986. Political Science. *Collaboration, The Supression of Mau Mau and the Establishment of 'Moderate Rule' in Kenya, 1953-1973.*

David Michael Rajnes, of Johnson City, N.Y.; B.A. University of Pennsylvania, 1973; M.M. Catholic University of America, 1980; M.A. American University, 1985. Economics.

Catherine Anna Rhodes, of Santa Cruz, Calif.; B.A. University of California Santa Cruz, 1978. Anthropology.

Andrew Chamberlin Rieser, of Bedford, Mass. History. *Discourse and the 'Loss' of China: The Owen Lattimore Debates.*

Jonathan Abram Roberts, of New York, N.Y. History. *Voices of an Antiwar Movement: Baltimore during the Vietnam War.*

Susan Louise Rogers, of Los Angeles, Calif.; B.A. Princeton University, 1982. Writing Seminars. *Shining with Violets.*

Jill Dana Rothstein, of Philadelphia, Pa.; B.A. Adelphi University, 1990. Writing Seminars. *The Green Start.*

Deirdre Alexia Royster, of Arlington, Va.; B.A. Virginia Polytechnic Institute and State University, 1987. Sociology.

Susan Elizabeth Sakimoto, of Walla Walla, Wash.; B.A. Whitman College, 1989. Earth and Planetary Sciences.

Amalia Sapag, of Santiago, Chile. Chemistry.

Steven James Sarson, of Leicestershire, England; B.A. University of East Anglia, England, 1987. History.

Steven Boyd Saum, of Coronado, Calif.; B.A. Emory University, 1989; M.A., 1989. Writing Seminars. *Wreckage.*

Thomas Klaus Schaller, of Gerbrunn, Germany. Political Science. *International Press Coverage of Recent Changes in East Germany.*

Richard Young Schauffler, of Washington, D.C.; B.A. University of California-Berkeley, 1976. Sociology.

Carlos Rezende Seligo, of Corte Medera, Calif.; B.A. University of California-Berkeley, 1989. Writing Seminars. *Nine Deaths.*

Julia Smith Sensenbrenner, of Neenah, Wis.; B.A. Princeton University, 1983. Sociology.

Marc Bernard Setterlund, of Arlington, Wis.; B.A. Gustavus Adolphus College, 1989. Psychology.

Mary Margaret Shaffer, of Lexington, Va.; B.A. University of Virginia, 1986. Hispanic and Italian Studies.

Emmett Joseph Sharkey, of Yuba City, Calif.; B.A. University of Notre Dame, 1990. Writing Seminars. *Stories for a Thesis.*

Ravi Sharma, of Arlington, Va. Economics.

ShwuJane Shieh, of Taoyuan, Taiwan, Republic of China; B.B.A. National Taiwan University, 1984; M.B.A., 1986. Economics.

Hyungsoo Shim, of Seoul, Korea; B.A. Seoul University, 1976; M.A., 1985. Economics.

Jean Lara Silver, of Columbia, Md.; B.A. Wesleyan University, 1990. Writing Seminars. *Wars On and With Disease: A Look at the Marketing of Condoms and at Forms of Biological Warfare.*

Lynn Kerrell Simmons, of Lake Tahoe, Calif.; B.A. University of CaliforniaBerkeley, 1987. Earth and Planetary Sciences.

John Carl Francis Siman, of Baltimore, Md. Classics.

Laura Marie SingelHenderson, of Owings Mills, Md.; B.S. Juniata College, 1987. Chemistry.

Eugene A. Smelik, of Morehead City, N.C.; B.S. Cleveland State University, 1982. Earth and Planetary Sciences.

Carl Edward Smith, Jr., of Charleston, W.Va. Near Eastern Studies.

Laura Isabelle Smith, of Havertown, Pa. Psychology. *Self-Concept Discrepancy and Recovery From Sexual Assault.*

Judith Ann Smrha, of Oakland, Calif.; B.A. Mills College, 1987. Economics.

Anil Sookdeo, of Natal, South Africa. History.

Edward H. Sparrow, of Detroit, Mich.; B.A. Princeton University, 1987. Writing Seminars. *Vampire Deer and Muffled Elephants.*

Alan Richard Spies, of Carriere, Miss. Physics and Astronomy.

Diana Lynne Steele, of Princeton, N.J.; B.A. Colgate University, 1985. Chemistry.

Brooke Charles Stevens, of New York, N.Y. Writing Seminars. *The Actor Prepares.*

Melissa Anne Stewart, of Alexandria, Va.; B.A. Hamilton College, 1981; M.A. Duke University, 1986. Hispanic and Italian Studies.

William Kelleher Storey, Jr., of Mount Sinai, N.Y.; B.A. Harvard University, 1987. History.

Mary Jane Sundius, of Monkton, Md.; B.A. Yale University, 1978. Sociology.

Gregory Hawkes Symmes, of North Plainfield, N.J. Earth and Planetary Sciences.

István Szapudi, of Siófok, Hungary. Physics and Astronomy.

Soheyla TaieTehrani, of Tehran, Iran; B.A. Tehran University, 1987. Sociology.

Roderick S.C. Tang, of Sarawak, Malaysia; B.A. College of Santa Fe, 1987. Chemistry.

Helen Fletcher Thompson, of Bangor, Maine; B.A. Amherst College, 1989. Writing Seminars. *Science and I: A Collection of Essays.*

Henry Charles Topper, of Baltimore, Md.; B.A. University of Notre Dame, 1967. Political Science. *Lenin on Party Leadership.*

Drew Avedis Torigian, of Paramus, N.J. Mathematics.

Shwu Chen Tsay, of Taipei, Taiwan, Republic of China; B.S. National Taiwan University, 1985. Chemistry.

Jeffrey ChunLee Tseng, of Los Altos, Calif. Physics and Astronomy.

Ruiqian Wan, of Xian, Peoples Republic of China. Psychology.

Stefan Weiler, of Fussgoenheim, Germany. Political Science. *President Bush and the Polish and Hungarian Initiative of 1989.*

Stuart Alan Weinstein, of North Bellmore, N.Y.; B.S. State University of New York at Binghamton, 1983. Earth and Planetary Sciences.

Wesley Marshak Weissberg, of New York, N.Y.; B.A. University of CaliforniaBerkeley, 1987. Writing Seminars. *What If They Ate You Too.*

Ulrike Weissenberger, of Dogern, Germany. Political Science. *The Struggle Over the War Powers Act Under the Reagan and Bush Administrations.*

Helen Wheatley, of Portland, Ore.; B.A. University of California-Santa Cruz, 1983. History.

Torrey Stephen Whitman, of Millersville, Md.; B.A. Michigan State University, 1971; M.A. Drexel University, 1973. History.

James Scott Wiley, of Vienna, Va.; B.A. St. Lawrence University, 1978. Political Science. *The Transformation of Empiricism: David Hume and the Problem of Theory and Practice.*

George Wilson, of Spring Valley, N.Y.; B.A. State University of New York, 1978; M.A. Brown University, 1983. Sociology.

Celia Marshall Wren, of Fairlee, Vt.; B.A. Radcliffe College, 1989. *The Bat Flew.*

Karin Anne Wulf, of Chevy Chase, Md.; B.A. American University, 1985. History.

Viki Zavales, of Berganfield, N.J. Hispanic and Italian Studies.

Chen Zhu, of Jiangsu, Peoples Republic of China; B.E. Chengdu College of Geology, 1982. Earth and Planetary Sciences.

Min Zhu, of Shanghai, Peoples Republic of China. Economics.

Jonathan Lurie Zimmerman, of Baltimore, Md.; B.A. Columbia University, 1983. History.

## *Doctors of Education in The School of Continuing Studies*

Barbara Grace Cottom, of Baltimore, Md.; B.S. Shippensburg University, 1969; M.S. The Johns Hopkins University, 1980. *The Effects of Multisensory Authoring Computer System (MACS) with and without Voice Accompaniment on the Word Recognition of Students with Learning Disabilities.*

Evelyn M. Dailey, of Baltimore, Md.; B.S. Frostburg State University, 1973; M.Ed. Towson State University, 1974; C.A.S. The Johns Hopkins University, 1986. *The Relative Efficacy of Cooperative Learning Versus Individualized Learning on the Writing Performance of Adolescents with Writing Problems.*

Marjorie Ann Fessler, of Ellicott City, Md.; B.A. Brooklyn College, 1968; M.S. University of Wisconsin, 1971; M.S.E., 1981. *The Effects of Self-Monitoring on the Academic Performance and On-Task Behavior of Children with Head Injuries.*

Ellen Flood Gaske, of Rockville, Md. *The Effects of a Predictable Book Writing Strategy on the Spontaneous Writing of Students with Mild Handicaps.*

Elizabeth I. Legenhausen, of Baltimore, Md.; B.A. Catholic University of America, 1968; M.A. Towson State University, 1982. *The Effectiveness of Instruction Using a Microcomputer Equipped with LOGO Microworlds on the Acquisition of School Readiness Skills by Preschool Children.*

Linda Mary Loughrey, of Severna Park, Md. *The Effects of Multi-sensory Reading Techniques upon the Recognition and Utilization of Function Words by Aphasic Stroke Patients.*

Sarah Jane McPherson, of Griffin, Ga.; B.A. University of Arkansas, 1969; M.S. The Johns Hopkins University, 1982. *The Effects of Metacognitive Strategy Training Using Computer Assisted Instruction for Vocabulary Acquisition by Students with Learning Disabilities.*

Alan G. Nemerofsky, of Plainfield, N.J.; M.S. West Virginia University, 1971; M.A. Loyola College, 1976. *Child Sexual Abuse Prevention: Teacher and Child Variables Affecting the Learning of Concepts and Skills in Sexual Abuse Prevention Programs.*

Mary Curley O'Melia, of Timonium, Md.; B.A. University of North Carolina, 1972; M.S. The Johns Hopkins University, 1981. *The Effects of Cooperative Homework Teams on the Aquisition of Basic Mathematics Skills by Secondary Students with Mild Handicaps.*

Dorothy Ann Wood, of Baltimore, Md.; B.A.B.S. College of Notre Dame of Maryland, 1953; M.Ed. Loyola College, 1972. *The Effects of Tape-Recorded Self-Instruction Cues on the Academic Performance of Students with Learning Disabilities.*

## *Doctors of Musical Arts in The Peabody Conservatory of Music*

Gary Michael Brown, of Benton, Ark.; B.M. Ouachita Baptist University, 1984; M.M. University of Colorado at Boulder, 1986. Composition.

Charles Ronald Ellis, of Boston, Mass.; B.M.E. Indiana University, 1970; M.M. New England Conservatory of Music, 1975. Conducting.

James Spencer Fay, of Croom, Md; B.M. Philadelphia Musical Academy, 1966; M.M. Catholic University of America, 1970. Clarinet. *The Clarinet and Its Use as a Solo Instrument in the Chamber Music of Brahms.*

Cyrus Ginwala, of Baltimore, Md.; B.M. Boston University, 1984; M.M. The Johns Hopkins University, 1987. Conducting.

Mark Daniel Hijleh, of Raymore, Mo.; B.S. William Jewell College, 1985; M.M. Ithaca College, 1987. Composition.

Elizabeth Leach Lawrence, of McLean, Va.; B.M. University of North Carolina, 1977; M.M. University of Illinois at Urbana-Champaign, 1979. Voice.

Dolores A. Leffingwell, of Baltimore, MD.; A.B. Mount Saint Joseph's College, 1962; M.M. Syracuse University, 1986. Voice.

Mark Markham, of Pensacola, Fla.; B.M. The Johns Hopkins University, 1984; M.M. The Johns Hopkins University, 1986. Piano.

Louis Stewart, of Elma, Wash.; B.M. Whitman College, 1966; M.M. New England Conservatory, 1968. Conducting. *Music Composed for Martha Graham: A Discussion of Musical and Choreographic Collaborations.*

Lois Svard, of Lewisburg, Pa.; B.M. Concordia College, 1969; M.M. University of Colorado at Boulder, 1971. Piano. *Illusion in Selected Keyboard Works of Gyorgy Ligeti.*

## *Doctors of Science in The School of Hygiene and Public Health*

Anhari Achadi, of Jakarta, Indonesia; M.D. University of Indonesia, 1972; M.P.H., 1974. International Health. *The Determinants of Immunization Services Utilization in a Rural Area of West Java, Indonesia.*

Peter Geoffrey Barss, of Wolfville, Canada; B.Sc. Acadia University, 1967; M.D. University of Chicago, 1971; M.P.H. The Johns Hopkins University, 1986. *Health Policy and Management. Health Impact of Injuries in the Highlands of Papua New Guinea: A Verbal Autopsy Study.*

Yong-Yuan Chang, of Kaohsiung, Republic of China; B.S. National Taiwan University, 1972; M.P.H., 1974. Mental Hygiene. *International Comparisons of Schizophrenic Risk.*

John-Paul Clark, of Titusville, Pa.; B.A. The Johns Hopkins University, 1984; M.H.S., 1985; M.Sc. London School of *Economics, 1986. International Health. Economic Impact of Chemotherapy for Onchocerciasis on Productivity of West African Rubber Tree Tappers.*

James Carl Coleman, of Columbia, Md.; B.S. Knoxville College, 1951; B.S. Ohio State University, 1957; M.S. Wayne State University, 1970. Health Policy and Management. *Patterns of Drug Therapy Regimens for High Blood Pressure Control among Black and White Hypertensives in Central Maryland.*

Polly Jacquelin Hoppin, of Takoma Park, Md.; B.A. Princeton University, 1981. Health Policy and Management. *Pesticide Use on Four Non-Traditional Crops in Guatemala: Policy and Program Implications.*

Jean Ann Langlois, of Baltimore, Md.; B.A. University of Rhode Island, 1979; M.S. Purdue University, 1982; M.P.H. The Johns Hopkins University, 1986. Health Policy and Management. *Dependence in Activities of Daily Living and the Risk of Fall Injury Events among Community-Dwelling Elderly.*

Barbara Luke, of Chicago, Ill.; B.S. Columbia University, 1972; M.A. New York University, 1974; M.P.H. Columbia University, 1978. Maternal and Child Health. *The Association between Maternal Weight Gain and the Birthweight of Twins.*

Cameron Alexander Mustard, of St. John's, Canada; B.A. Brown University, 1975. Behavioral Sciences and Health Education. *Maternal Education and the Incidence and Treatment of Diarrheal Disease in Young Children: Honduras 1981-1983.*

Louis Walter Reedt, of Chestertown, Md.; B.A. Washington College, 1973; M.A., 1977. Mental Hygiene. *Marijuana Coping and Abstinence Symptoms.*

Alexander F. Ross, of Washington, D.C.; B.A. State University of New York at Albany, 1984. Health Policy and Management. *Malpractice Claims in Maryland Emergency Departments 1978-1987: Implications for Risk Management.*

Kathy Salaita, of Reston, Va.; B.A. University of Virginia, 1979; M.S. University of Texas, 1981. Health Policy and Management. *Spousal Concordance for Systolic and Diastolic Blood Pressure.*

William G. Sciarillo, of Baltimore, Md.; B.A. Temple University, 1974; B.S.N. University of Pennsylvania, 1976; M.S.N. University of Colorado, 1979. Maternal and Child Health. *The Influence of Lead Exposure on Maternal-Reported Behavior in Young Children.*

Xiaobin Wang, of Beijing, Republic of China; M.D. Beijing Medical University, 1983; M.P.H. Tulane University, 1987. Maternal and Child Health. *Differences in Intrauterine Growth and Infant Mortality among Chinese, Japanese, and White Americans.*

Daniel William Webster, of Carrollton, Ky.; B.A. University of Northern Colorado, 1982; M.P.H. The University of Michigan, 1985. Health Policy and Management. *Determinants of Pediatricians' Firearm Injury Prevention Counseling Practices.*

Siswanto Agus Wilopo, of Yogyakarta, Indonesia; M.D. Gadjah Mada University, 1979; M.Sc., 1983; M.Sc. McMaster University, 1985. Population Dynamics. *Assessing the Impact of Child Survival Interventions in Indonesia: A New Index of Health Status.*

Siti Norazah Zulkifli, of Kuala Lumpur, Malaysia; B.Sc. University of London, 1982; M.Sc., 1983. Maternal and Child Health. *The Relationship Between Dietary Factors and Blood Pressure among African-American Adolescents in Baltimore: With Special Emphasis on Calcium.*

## *Doctors of Public Health in The School of Hygiene and Public Health*

Ahmed S. Aboraya, of Cairo, Egypt; M.B.B.Ch. Cairo University, 1977; M.P.H. The Johns Hopkins University, 1987. Mental Hygiene. *Determinants of Disabling Injuries.*

Abdullah-Hel Baqui, of Dhaka, Bangladesh; M.B.B.S. Dhaka Medical College, 1977; M.P.H. The Johns Hopkins University, 1985. International Health. *Epidemiology of Persistent Diarrhea in Bangladeshi Children.*

Robyn R.M. Gershon, of Columbia, Md.; B.S. Quinnipiac College, 1976; M.H.S., 1981. Environmental Health Sciences. *Barriers to Precaution Adoption among Health Care Workers at Risk of Occupational Exposure to HIV-I.*

Jane Halpern, of Baltimore, Md.; B.A. University of Wisconsin, 1968; M.D. Albert Einstein College of Medicine, 1972; M.P.H. The Johns Hopkins University, 1978. Health Policy and Management. *Variations in Rates and Appropriateness of Coronary Bypass Surgery in Maryland.*

Dwip Kitayaporn, of Bangkok, Thailand; B.Sc. Mahidol University, 1977; M.D., 1979; M.P.H. The Johns Hopkins University, 1987. Epidemiology. *Reappraisal of G-6-PD Deficiency and Falciparum Malaria.*

Soewarta Kosen, of Jakarta, Indonesia; M.D. University of Indonesia, 1976; M.P.H. University of the Philippines, 1982. International Health. *Performance of Health Centers in Delivery of Immunization Services in Timor, Indonesia.*

Dileep Vishnu Mavalankar, of Ahmedabad, India; M.B.B.S. Gujarat University, 1982; M.P.H. The Johns Hopkins University, 1983; M.D. Gujarat University, 1987. Population Dynamics. *Quantification of Risk Factors for Perinatal Mortality and Low Birth Weight in Ahmedabad, India.*

Iman Adel Nuwayhid, of Beirut, Lebanon; B.S. American University of Beirut, 1980; M.D., 1984; M.P.H. The Johns Hopkins University, 1985. Environmental Health Sciences. *Recent Work-Related Activities and the Onset of First-Time Low Back Pain: A Case-Control Study of the New York City Firefighters.*

Armando Peruga-Urrea, of Zaragoza, Spain; M.D. Zaragoza University, 1979; M.P.H. The Johns Hopkins University, 1981. Health Policy and Management. *Determinants of AIDS Knowledge about Transmission Modes, Preventive Measures and Risk Groups in a Sample of the General Population of Madrid.*

Mary Lou Rorabaugh, of Clermont, Fla.; B.S. Nyack College, 1963; M.S.N. University of Virginia, 1979; M.P.H. The Johns Hopkins University, 1984. Maternal and Child Health. *Catch-Up Growth in Young Hmong Refugee Children.*

Karen Adelson Strauss, of Memphis, Tenn.; B.A. Sweet Briar College, 1976; M.H.S. The Johns Hopkins University, 1983. Environmental Health Sciences. *Perceived Environmental Threat and Hazard Awareness among Residents in Six Communities in the United States.*

Virginia Marie Regis Turner, of Newton, Mass.; B.S. Boston College, 1968; M.P.H. Harvard University, 1980. International Health. *Risk Factors for Trichiasis in Women, Kongwa, Tanzania: A Case Control Study.*

## *Doctors of Philosophy in The School of Hygiene and Public Health*

Kanta Alvi, of Dhaka, Bangladesh; B.S. University of Dhaka, 1978; M.A. DePaul University, 1980. Population Dynamics. *Income Aspirations and Migrant Women's Motivation to Work The Case of Malaysia.*

Annette Eiko Ashizawa, of Sacramento, Calif.; B.A. San Francisco State University, 1976; M.P.H. The Johns Hopkins University, 1981. Environmental Health Sciences. *Coal Workers' Respiratory Disease Program Evaluation.*

Marycatherine Augustyn, of Baltimore, Md.; B.A. Drew University, 1981. Behavioral Sciences and Health Education. *Condom Use in an Urban Population: An Application of the Theory of Planned Behavior.*

Julie A. Baldwin, of Boulder, Colo.; B.A. University of Colorado, 1984. Behavioral Sciences and Health Education. *Preventing HIV/AIDS Among Adolescents: The Role of Self-Efficacy Enhancing Approaches.*

Michael Edward Baser, of Los Angeles, Calif.; B.A. University of California at San Diego, 1974; M.S. Harvard University, 1977. Environmental Health Sciences. *Distribution of Ventilation in the Aging Lung.*

Mark Lloyd Chernaik, of Eugene, Ore.; B.S. University of Massachusetts, 1984. Biochemistry. *The Contribution of Individual Cysteine Residues to the Cadmium Detoxification Function of Metallothionein.*

Mary Jean Cismowski, of Chula Vista, Calif.; B.A. Occidental College, 1983. Biochemistry. *Structural Characterization of Chinese Hamster Metallothionein and Metallothionein Mutants.*

Lark Aurelia Claassen, of Seattle, Wash.; B.S. University of Puget Sound, 1982. Biochemistry. *Structure-Function Analysis of the* Escherichia coli *UvrA DNA Repair Protein.*

Susan L. Gdovin, of Baltimore, Md.; B.S. Shippensburg University, 1980. Immunology and Infectious Diseases. *Molecular Mechanisms of Action of the Visna Virus Tat Protein.*

Gordon Jonathan Harris, of Chappaqua, N.Y.; B.S. Lafayette College, 1986. Environmental Health Sciences. *Objective Quantification of the Regional Distribution of Radioactivity in Cerebral Emission Computed Tomography.*

Michael A. Hauser, of Ivy, Va.; B.A. University of Pennsylvania, 1983. Biochemistry. *Functional Anatomy of the Substrates for Hp1 Integration.*

Christina August Hecht, of Berkeley, Calif.; B.A. Stanford University, 1978. Population Dynamics. *Amniocentesis and Down Syndrome: The Impact of a Public Health Intervention.*

Allan Hildesheim, of Sao Paulo, Brazil; B.A. Washington University, 1985. Epidemiology. *Herpes Simplex Virus Type-2: Independent, Synergistic, or No Effect on Risk of Invasive Cervical Cancer.*

Alison Snow Jones, of Baltimore, Md.; B.A. Millersville State College, 1979. Health Policy and Management. *The Effects of Surgeon Supply on the Demand for Surgery.*

Mohammad Rezaul Karim, of Dhaka, Bangladesh; B.Sc. Dhaka University, 1979; M.Sc., 1981; Sc.M. The Johns Hopkins University, 1986. Biostatistics. *Generalized Linear Models with Random Effects.*

Karungari Kiragu, of Nakuru, Kenya; B.A. College of St. Teresa, 1981; M.P.H. University of South Carolina, 1984. Population Dynamics. *The Determinants of Premarital Sexual Activity and Contraceptive Use Among In-School Adolescents in Kenya.*

Ann Carroll Klassen, of Baltimore, Md.; B.A. Oberlin College, 1978. Behavioral Sciences and Health Education. *The Impact of Chronic Disease on Preventive Screening for Cervical Cancer in Older Women.*

Chun-Chung Law, of Kowloon, Hong Kong; M.S. State University of New York at Stonybrook, 1985. Biostatistics. *Statistical Methods for the Analysis of Interval Censored Data.*

Gerard Frederic LeBlond, of Portland, Maine; B.Sc. St. Francis Xavier University, 1978; M.S. University of Maine, 1983. Biochemistry. *New Methods for Studying the DNA of Complex and Simple Genomes.*

Xin-Hua Liu, of Shanghai, People's Republic of China; M.A. Shanghai First Medical College, 1982. Biostatistics. *Estimating Functions in Regression Models with Error-In-Covariates.*

Carol Magee Maschal, of Temple Hills, Md.; B.S.N. University of Maryland, 1964; M.P.H. The Johns Hopkins University, 1978. Environmental Health Sciences. *Occupational and Environmental Factors in Congenital Extrahepatic Biliary Atresia.*

F. Javier Nieto Garcia, of Ponferrada, Spain; M.D. University of Valencia, 1978. M.P.H. Institute of Public Health, 1985; M.H.S. The Johns Hopkins University, 1989 Epidemiology. *Childhood Weight and Growth Rate as Predictors of Adult Mortality and Hypertension.*

Christina Han Park, of Laurel, Md.; B.A. Goucher College, 1982; M.H.S. The Johns Hopkins University, 1984. Epidemiology. *Etiologic Heterogeneity of Anencephalus and Spina Bifida.*

Mary M. Prince, of Syracuse, N.Y.; B.S. Syracuse University, 1982; M.S. University of Rochester, 1984. Epidemiology. *The Effects of Noise and Smoking on Hearing Loss in an Occupational Cohort Study.*

Mizanur Rahman, of Dhaka, Bangladesh; B.S. Ohaka Univeristy, 1973; M.S., 1974; M.A. Vrije University, 1983. Population Dynamics. *Gender Preference, Fertility, and Excess Female Child Mortality in Matlab, Bangladesh.*

Nancy Knowles Russell, of La Jolla, Calif.; B.A. Stanford University, 1985. Behavioral Sciences and Health Education. *Health Promotion Practices of Primary Care Physicians: Direct Observation of Lifestyle Discussion in Routine Visits.*

P. Sankara Sarma, of Pirappancode, India; B.Sc. University of Kerala, 1979; M.Sc. University of Calicut, 1981. M.H.S. The Johns Hopkins University, 1989. Population Dynamics. *A Study of Population Momentum Under Changing Vital Rates.*

Amanda Benedict Sonnega, of Brooklyn, N.Y.; B.A. Drew University, 1984. Behavioral Sciences and Health Education. *Psychosocial Factors and Immune Status in HIV-1 Infection.*

Kathryn Mary Stephens, of Lafayette, Calif.; B.S. University of California at Davis, 1984. Biochemistry. *Properties of* Escherichia coli *DnaB Helicase in Bacteriophage Lambda DNA Replication.*

Robert Milton Stephens, of Middletown, Md.; B.S. University of Maine, 1978; M.S., 1979. Immunology and Infectious Diseases. *Cloning and Characterization of cDNA Clones Encoding the EIAV TAT and REV Genes.*

James Edward Swauger, Jr., of Boston, Mass.; B.S. Northeastern University, 1985. Environmental Health Sciences. *Role of Free Radical Metabolites in Tumor Promotion and Progression by Benzoyl Peroxide.*

Chun-Ming Tseng, of Miaoli, Republic of China; M.D. Taipei Medical College, 1981; M.H.S. The Johns Hopkins University, 1985. Environmental Health Sciences. *Hypoxic Pulmonary Vasoconstriction in Normal and Pathologic Hamsters.*

Lorraine Evelyn Cathers Twerdok, of Rockville, Md.; B.S. University of Pittsburgh, 1980; M.S. University of Wisconsin, 1982. Environmental Health Sciences. *Target Organ Determinants in Chemically-Induced Bone Marrow Toxicity.*

Dean Foster Wong, of Lutherville, Md.; B.Sc. University of Western Ontario, 1972; M.D. University of Toronto, 1977. Environmental Health Sciences. *The Imaging and Quantification of D2 Dopamine Receptors in Living Human Brain.*

Elizabeth A. Zenger, of Chicago, Ill.; B.A. Beloit College, 1979; M.A. Arizona State University, 1981; M.H.S. The Johns Hopkins University, 1989. Population Dynamics. *Heterogeneity among Families in Infant Mortality and Reproductive Patterns in Matlab, Bangladesh.*

Xi-Yan Zhao, of Chengdu, People's Republic of China; B.A. Sichuan University, 1982. Population Dynamics. *The Demographic Change and Women's Economic Status in Rural China.*

## *Doctors of Philosophy in The Paul H. Nitze School of Advanced International Studies*

Ronald D. Asmus, of Mequon, Wisc.; B.A. University of Wisconsin, 1979; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1981. *Bonn and East Berlin: The Politics of German Unity and Partition.*

Michael Thomas Clark, of Silver Spring, Md.; B.A. Harvard University, 1979; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1986. *The Tragic Science of Political Realism: Power, Necessity and Deliberation in Thucydides.*

Philip Howard Gordon, of Fairfax, Va.; B.A. Ohio University, 1984; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1987. *Struggling to Adapt: French National Security Policy and the Gaullist Legacy, from the 1960s to the End of the Cold War.*

Christopher Robert Rossi, of Iowa City, Iowa; B.A. Washington University, 1980; J.D. 1982; LL.M. University of London, 1983; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1985. *Equity as a Source of International Law? A Legal Realist Approach to the Process of International Decisionmaking.*

Xiaofang Shen, of Nanking, China; B.A. Smith College, 1983; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1985. *Direct Foreign Investment and Economic Development: A Study of the Chinese Experience, 1979-1988.*

Juan Gabriel Tokatlian, of Buenos Aires, Argentina; Bachellor University of Belgrano, 1978; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1981. *The Political Economy of Colombian-U.S. Narcodiplomacy.*

Scott David Tollefson, of Lacey, Wash.; B.A. Westmont College, 1979; M.A. University of California Santa Barbara, 1980; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1984. *Brazilian Arms Transfers, Ballistic Missiles, and Foreign Policy: The Search for Autonomy.*

## *Doctors of Medicine in The School of Medicine*

Lisa Shoshana Abrams, of Baltimore, MD; A.B., Harvard College, 1987.

Raya Al-Mufti, of Lafayette, CA; B.A., Wellesley College, 1987.

Perry William Alexion, of Seabrook, MD; B.S., University of Maryland (College Park), 1987.

Ilham A. Algayed, of Alexandria, VA; B.A., Johns Hopkins University, 1987.

Katrina Alison Armstrong, of Northport, AL; B.A., Yale University, 1986.

Laura Joan Balcer, of Timonium, MD; B.S., College of William and Mary, 1987.

Tamara Dale Ball, of Stevensville, MI; B.S., University of Michigan (Ann Arbor), 1985.

Christina Ann Bandera, of Ambler, PA; B.S., Harvard College, 1987.

Beverly Anne Banks, of Baltimore, MD; B.S., Duke University, 1984.

Carole Annelisa Baraldi, of Houston, TX; B.A., Rice University, 1987.

Brock Allen Beamer, of Arcadia, OH; B.A., Kent State University, 1986.

Tomasz M. Beer, of Rockville, MD; B.A., Johns Hopkins University, 1986.

Leslie John Bisson, of Edina, MN; B.S., University of Minnesota (Twin Cities), 1987.

Arthur Dewayne Black, of Los Angeles, CA; B.S., University of California (Los Angeles), 1987.

Lauren Rae Boglioli, of North Bellmore, NY; B.S., Adelphi University, 1987.

Brenda Lynn Bouchard, of St. Albans, VT; B.A., University of Vermont, 1987.

William Matthew Bowling, of East Windsor, NJ; B.A, M.A., Washington University in St. Louis, 1987.

Michael Patrick Boyle, of Gaithersburg, MD; B.S., University of Maryland (College Park), 1986.

Malcolm Vernon Brock, of Hamilton, Bermuda; B.A., Princeton University, 1985; M.Litt., University of Oxford, 1988.

Knute Carl Buehler, of Roseburg, OR; B.S., Oregon State University, 1986.

Leon Albert Bynoe, of Bronx, NY; Sc.B., Brown University, 1987.

Christopher Yat-Chuen Chow, of Islip, NY; B.S., Massachusetts Institute of Technology, 1986.

Martin Jason Citardi, of New Rochelle, NY; B.A., Johns Hopkins University, 1987.

Michael Edward Coghlan, of Birmingham, AL; B.S., University of Alabama (Birmingham), 1987.

Eric Jason Cohen, of Dix Hills, NY; B.S., Union College, 1987.

James Dwight Cole, of Decatur, IL; B.S., University of Illinois, 1982.

Philip Arthur Cole, of Ridgewood, NJ; B.S., Yale University, 1984.

Sarah Streett Cornyn, of Baltimore, MD; B.A., Sarah Lawrence College, 1987.

Susan Dona Cummings, of Owings Mills, MD; B.S., Duke University, 1981.

Lawrence Jay Davis, of Bethesda, MD; A.B., Harvard College, 1985.

Laurie J. Antonik del Hierro, of Wilmington, DE; B.A., Wellesley College, 1986.

Tamara Lea Doering, of Lutherville, MD; B.A., Johns Hopkins University, 1983.

Kathy Sue Durham, of Napoleon, OH; B.S., University of Miami, 1986.

Timothy Scott Eckel, of Reading, PA; B.S., Pennsylvania State University, 1986; M.S., 1990.

Martin Gary Edwards, of New Fairfield, CT; B.S., Brown University, 1987.

Joseph Dominic Femino, of Pasadena, CA; B.S., Yale University, 1987.

Anne Crowe Fischer, of Chapel Hill, NC; B.A., University of North Carolina (Chapel Hill), 1983.

Avrim Brett Fishkind, of Adelphi, MD; B.S., University of Maryland (College Park), 1986.

Kathryn Marian Frantz, of State College, PA; B.A., Pennsylvania State University, 1986.

Natalie Wayne Geary, of New York, NY; B.A., Harvard College, 1985.

Maura Lianne Gillison, of Waite Hill Village, OH; B.S., Duke University, 1987.

Andrea Marie Girman-Ratan, of Avoca, PA; B.S., University of Scranton, 1985.

Wendy Jessica Hawkins, of Austin, TX; B.A., University of Texas (Austin), 1987.

Stephen Robert Hays, of Syracuse, NY; B.S., M.S., Yale University, 1987.

Stephen Leif Helgemo, Jr., of Fort Myers, FL; B.S., Florida State University, 1986.

Tony Wei-hsiu Ho, of Anaheim, CA; B.S., University of California (Los Angeles), 1987.

Vivian Ying Hou, of Glendale, CA; B.A., University of California (Berkeley), 1987.

Allen Hsieh, of Edison, NJ; B.A., Columbia University, 1987.

I-Chow Joe Hsu, of Tallahassee, FL; B.S., University of Florida, 1987.

Edward Paul Junkins, Jr., of Coralville, IA; B.A., University of Notre Dame, 1987.

David Mark Kalainov, of Des Moines, IA; B.A., Stanford University, 1986.

John Michael Kane III, of Pittsburgh, PA; B.S., Allegheny College, 1987.

Joel Thorp Katz, of Glencoe, IL; B.A., Earlham College, 1981; M.A., Johns Hopkins University, 1986.

Cecilia Mary King, of Holmdel, NJ; B.A., Johns Hopkins University, 1987.

Paul Michel Kirshbom, of Metairie, LA; B.A., Johns Hopkins University, 1987.

Leonidas George Koniaris, of Brookline, MA; B.S., University of Massachusetts (Amherst), 1986.

Mark Solon Krasnoff, of St. Louis, MO; B.A., Amherst College, 1987.

Rachelle Marie LaForce, of Syracuse, NY; B.A., Johns Hopkins University, 1987.

William Harras Landschulz, of Dubuque, IA; B.A., M.S., University of Chicago, 1982.

Robert Louis Lapidus, of Fort Lee, NJ; B.A., Clark University, 1987.

Todd Michael Lasner, of Greenburg, PA; B.S., Duke University, 1987.

John Raymond Leahy, of Holmdel, NJ; B.A., University of Virginia, 1986.

Keith Eustace Loring, of Fruita, CO; B.A., University of Colorado (Boulder), 1986.

Thomas George Lundquist, of Upper Montclair, NJ; B.S., Pennsylvania State University, 1987.

Mary Robertazzi Mailloux, of Pembroke Pines, FL; A.A., Broward Community College, 1985; B.A., University of Miami, 1987.

William John Marks, Jr., of Milwaukee, WI; Honors B.S., Marquette University, 1987.

Zacharias Vasilios Mavrophilipos, of Baltimore, MD; B.A., M.A., Johns Hopkins University, 1987.

Richard John McCarthy, of Warrenton, VA; B.A., University of Virginia, 1987.

Pearline Veronica McKenzie, of Brooklyn, NY; B.S., United States Military Academy, 1987.

Jennifer Bupp Meko, of Wyndmoor, PA; A.B., Princeton University, 1987.

Ayesa Nazneen Mian, of Wilmington, DE; B.S., Johns Hopkins University, 1987.

Thomas Andrew Minor, of Rochester, NY; B.S., Syracuse University, 1987.

Crystal Arenal Mullen, of Annapolis, MD; B.A., Johns Hopkins University, 1987.

Fletcher Mark Munter, of Rockville, MD; B.S., United States Military Academy, 1987.

Neal Jamison Naff, of Boones Mill, VA; B.S., Virginia Military Institute, 1987.

Daniel Joseph Nigrin, of Staten Island, NY; B.A., Johns Hopkins University, 1987.

James Caldwell Oates, of Nashville, TN; B.S., Bates College, 1986.

Jane Anoush Oski, of Baltimore, MD; B.A., Middlebury College, 1982.

Paula Yvette Paradis, of North Smithfield, RI; B.S., Duke University, 1986.

Gail Denise Pearson, of Columbia, MD; A.B., University of Michigan (Ann Arbor), 1973; M.P.A., American University, 1978; Sc.D., Johns Hopkins University, 1990.

Melissa Sue Pessin, of Fairview, PA; B.S.E., Princeton University, 1984.

Dante Joseph Pieramici, of Hudson, OH; B.A., Northwestern University, 1987.

Nina Pierpont, of Darien, CT; B.A., Yale University, 1977; M.A., Ph.D., Princeton University, 1981; 1986.

Peter John Pronovost, of Waterbury, CT; B.S., Fairfield University, 1987.

Thomas Christopher Randall, of Sparks, MD; B.A., Bowdoin College, 1985.

Carol Ann Rauch, of Cherry Hill, NJ; A.B., Dartmouth College, 1982.

Charles Haskell Redfern, of La Jolla, CA; B.A., University of California (Berkeley), 1985.

Thomas Kevin Reid, of Norman, OK; B.S., Oklahoma State University, 1987.

Daniel Scott Reuland, of Cincinnati, OH; B.A., University of Michigan (Ann Arbor), 1986.

Adrienne Laura Richards, of Morristown, NJ; B.A., Drew University, 1986.

Joy V. Roberts, of Rockville, MD; B.A., Andrews University, 1987.

Andrew Leon Rosenberg, of Huntington Wood, MI; B.S., University of Michigan (Ann Arbor), 1986.

Nathan Jeffrey Rudin, of Stoughton, MA; B.A., M.A., Boston University, 1986; 1987.

Diana Fertsch Ruggio, of Baltimore, MD; B.A., University of Maryland (Baltimore County), 1982; Ph.D., Uniformed Services University of the Health Sciences, 1989.

Jeanne Marie Santoli, of Dunwoody, GA; B.A., Princeton University, 1987.

Joseph Stephen Schoeniger, of Cridersville, OH; B.S., M.S., Yale University, 1983.

Joseph M. Schwartz, of Great Neck, NY; B.A., Johns Hopkins University, 1987.

Margot Anne Schwartz, of Chappaqua, NY; B.A., Wesleyan University, 1985.

Deborah Elaine Sellmeyer, of St. Louis, MO; B.A., Central Methodist College, 1987.

Helen Nwanganga Shields, of Bethesda, MD; B.A., Brown University, 1987.

Masako Shimamura, of Piscataway, NJ; A.B., Cornell University, 1987.

Robert Steven Sikorski, of Nanticoke, PA; B.S., Pennsylvania State University, 1984.

Mark Alan Silberman, of Leesburg, VA; B.S., Virginia Polytechnic Institute and State University, 1987.

Rajesh Singal, of Lititz, PA; B.A., University of Pennsylvania, 1987.

Edward William Skorpinski, of Huntingdon Valley, PA; B.A., LaSalle University, 1987.

Brian Anthony Smith, of Poway, CA; B.S., University of Arizona, 1986.

Ahmed Mohamed Soliman, of Floral Park, NY; B.A., Queens College, 1987.

Douglas James Spegman, of Carrboro, NC; A.B., Colgate University, 1979; M.S.P.H., University of North Carolina (Chapel Hill), 1985.

Alan Gordon Stein, of Madison, WI; B.S., University of Wisconsin (Madison), 1986.

Doris Adelheid Stoffers, of Bayside, NY; B.A., Johns Hopkins University, 1984.

Karen Lee Swartz, of Cranbury, NJ; B.A., Princeton University, 1987.

Jorge Alberto Tavel, of Tucker, GA; B.S., Emory University, 1987.

Roxanne Claire Thompson, of Baltimore, MD; B.A., Yale University, 1986.

Ajay Verma, of Bethesda, MD; B.S., University of Maryland (College Park), 1984.

Janice Elizabeth Wallace, of Detroit, MI; B.A., Cornell University, 1985.

Beth Anne Rose Wallen, of Short Hills, NJ; B.A., Johns Hopkins University, 1986; M.P.H., 1987.

Kristin Lynn Weber, of St. Louis, MO; B.S., University of Missouri, 1987.

William Roy Welder, of Greenville, WV; B.S., University of North Carolina (Greensboro), 1986; M.P.H., Johns Hopkins University, 1990.

James Frederick Wenz, of Somerville, NJ; B.S., Rensselaer Polytechnic Institute, 1987.

Karl Arthur Wolff IV, of Newport Beach, CA; B.S., University of California (Los Angeles), 1987.

Belinda Yun-Mae Yim, of Ambler, PA; B.A., Cornell University, 1987.

Leslie Tatsuya Yonemoto, of Sunnyvale, CA; B.S., University of California (Berkeley), 1979; M.B.A., Arizona State University, 1984.

Richard Cedric Zellars, of West Orange, NJ; A.B., Bowdoin College, 1986.

# *Doctors of Philosophy in The School of Medicine*

Alessandro Alessandrini, of Yonkers, NY; A.B., Harvard College, 1983. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Coordination of Immunoglobulin $DJ_H$ Transcription and D-to-$J_H$ Rearrangement by Promoter-Enhancer Approximation $^H$ in the Ha-ras Transformed Lymphoid Progenitor Cell Line, HAFT-1.*

Linda Mary Arterburn, of Ellicott City, MD; B.S., University of Wisconsin (Madison), 1984. Pharmacology and Molecular Sciences. *The Structure and Trafficking of Lysosomal Membrane Glycoprotein 1.*

Lesa Jean Beamer, of Uniontown, OH; B.S., Kent State University, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Protein-DNA Recognition at High Resolution: Refined Structure of the Lambda Repressor-Operator Complex.*

Linzhao Cheng, of Baltimore, MD; B.S., University of Science and Technology of China, 1985. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Stimulation of the Replication of SV40 Minichromosomes by Transcriptional Activators: In Vivo and In Vitro Studies.*

Philip Arthur Cole, of Ridgewood, NJ; B.S., Yale University, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Pharmacology and Molecular Sciences. *A Chemical Portrait of and Inhibitor Development for Cytochrome P-450 Aromatase.*

Tamara Lea Doering, of Lutherville, MD; B.A., Johns Hopkins University, 1983. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. *Glycosyl Phosphatidylinositol Protein Anchors of African Trypanosomes: Biosynthesis and Implications for Chemotherapy.*

Anne Crowe Fischer, of Baltimore, MD; B.A., University of North Carolina (Chapel Hill), 1983. Molecular Biology and Genetics-Program in Immunology. *The Immunobiology of Syngeneic Graft-Versus-Host Disease.*

Harry R. Goldberg, of Baltimore, MD; B.A., Franklin and Marshall College, 1978; M.S., Johns Hopkins University, 1983. Biophysics-Molecular Biophysics Program. *Site Specific Recognition by DNA Binding Proteins: Analysis and Design of λRepressor-Operator Contacts.*

Eileen Bernadette Haase, of Silver Spring, MD; B.S., Virginia Polytechnic Institute and State University, 1983; M.S., Johns Hopkins University, 1985. Biomedical Engineering. *The Role of the Microcirculation in Total Body Capacitance Changes During Activation of the Baroreceptor Reflex System.*

Amy Beth Hahn, of BelAir, MD; B.S., Carnegie-Mellon University, 1985. Molecular Biology and Genetics—Program in Immunology. *The Murine Class 1 Qa-2 Molecule and T Lymphocyte Activation.*

Sandra L. Holloway-Gerring, of Groningen, The Netherlands; B.S., Virginia Polytechnic Institute and State University, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Role of CHL1 in Chromosome Transmission Fidelity and Cell Cycle Progression in Saccharomyces cerevisiae.*

Steven Shih-ting Hsiao, of Baltimore, MD; B.S.E., Duke University, 1976; M.S., 1978. Biomedical Engineering. *The Representation and Transformation of Scanned Embossed Letters in the Monkey Somatosensory System.*

William Harras Landschulz, of Dubuque, IA; B.A., M.S., University of Chicago, 1982. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. *Characterization of a Rat Liver Transcriptional Activator, CAEBP: Recognition of a New DNA Binding Motif, the Leucine Zipper.*

Edward B. Lankford, of Pocomoke City, MD; B.S., Virginia Polytechnic Institute and State University, 1980; M.D., University of Maryland, 1984. Biomedical Engineering. *The Effects of Right Heart Loading on Left Ventricular Performance of in situ Ejecting Hearts.*

June Li, of Baltimore, MD; B.S., National University of Defense Technology, 1982; M.S., Old Dominion University, 1985. Biomedical Engineering. *Estimation of the Recovery of Discharge Probability in Cat Auditory Nerve Fibers and Computer Simulations.*

Min Li, of Wuhan, China; B.S., Wuhan University, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Purification and Characterization of NBP, a Protein that Specifically Binds an Enhancer of Immunoglobulin Gene Rearrangement.*

Kan Liao, of Baltimore, MD; B.S., University of Science and Technology of China, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. *Phosphotyrosyl Turnover in Insulin Signaling: Characterization of Two Membrane-Bound pp15 Protein Tyrosine Phosphatases from 3T3-L1 Adipocytes*.*

Anne Elizabeth Luebke, of Miami, FL; B.A., B.S., Oklahoma State University, 1984. Biomedical Engineering. *The Dependence of the Plasticity of the Vestibulo-ocular Reflex on Climbing-fiber Activity.*

Chalapathy V. Neti, of Boca Raton, FL; M.S. Washington State University, 1983. Biomedical Engineering. *Neural Network Models of Sound Localization Based on Directional Filtering of the Pinna.*

William James Pavan, of Yorktown Heights, NY; B.S., University of Massachusetts/Amherst, 1985. Biochemistry, Cellular and Molecular Biology Training Program—Physiology. *Strategies for the Isolation and Analysis of Disease Loci Using Yeast Artificial Chromosomes.*

Nikola P. Pavletich, of Athens, Greece; B.S., California Institute of Technology, 1988. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Crystal Structure of a Zinc Finger/DNA Complex at 2.1° Resolution: A Framework for Understanding How Zinc Fingers Recognize DNA.*

Melissa Sue Pessin, of Fairview, PA; B.S.E., Princeton University, 1984. Neuroscience. *Diglyceride Molecular Species and Sources in Signal Transduction.*

Marie Catherine Pizzorno, of LaMirada, CA; B.A., Whittier College, 1985. Biochemistry, Cellular and Molecular Biology Training Program—Pharmacology and Molecular Sciences. *Regulation of Gene Expression by the Immediate-Early Gene Products of Human Cytomegalovirus.*

Carol Ann Rauch, of Cherry Hill, NJ; B.A., Dartmouth College, 1982. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. *The Topology of Kinetoplast DNA Networks.*

Carol A. Renfrew, of Coatesville, PA; B.S., University of Delaware, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Cell Biology and Anatomy. *The Degradation of Epidermal Growth Factor and its Receptor by the Isolated Perfused Rat Liver.*

Ruth Norine Russo, of Walla Walla, WA; B.S., Gonzaga University, 1985. Pharmacology and Molecular Sciences. *Two Forms of Bl→4-Galacytosyltransferase: Analysis of Membrane Orientation and Golgi Retention.*

Jane Eliot Sewell, of Baltimore, MD; B.Sc., University College-London, 1982; M.A., Johns Hopkins University, 1985. History of Medicine. *Bountiful Bodies: Spencer Wells, Lawson Tait, and the Birth of British Gynaecology.*

Robert Steven Sikorski, of Nanticoke, PA; B.S., Pennsylvania State University, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Molecular Genetics of the TPR Gene Family.*

Barbara Stauch Slusher, of Baltimore, MD; B.S., Dickinson College, 1986. Pharmacology and Molecular Sciences. *Purification, Antibody Production, and Immunocytochemical Localization of Rat Brain N- Acetylated Alpha-Linked Acidic Dipeptidase (NAALADase).*

Doris Adelheid Stoffers, of Bayside, NY; B.A., Johns Hopkins University, 1984. Neuroscience. *Structure and Regulation of the Gene Encoding Peptidylglycine alpha-Amidating Monooxygenase.*

Huan Tian, of Greenville, NC; B.S., Wuhan University, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Molecular and Biochemical Studies of the Murine Non-Classical Class I MHC Molecule Qa-2.*

Guochuan E. Tsai, of Hsinchu, Taiwan; M.B., National Yang-Ming Medical College, 1984. Neuroscience. *Anatomy, Physiology, and Pathophysiology of N-Acetylaspartylglutamate.*

Yeou-Ping Tsao, of Taipei, Taiwan, Republic of China; B.M., National Defense Medical Center, 1983. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. *DNA Damage Responses in Mammalian Cells.*

Carol Virginia Ward, of Hinsdale, IL; B.S., University of Michigan, Ann Arbor, 1986. Cell Biology and Anatomy. *The Functional Anatomy of the Lower Back and Pelvis of the miocene Hominoid Proconsul Nyanzae from Mfangano Island, Kenya.*

Ora Weisz, of Baltimore, MD; B.S., Yale College, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Pharmacology and Molecular Sciences. *Carbohydrate-Mediated Hepatocyte Adhesion: Rat Hepatic Lectin Topography and Cytoskeletal Associations.*

John Andrew White, of Monroe, LA; B.S., Louisiana Tech University, 1984. Biomedical Engineering. *Electrotonic Models of Stellate Cells of the Ventral Cochlear Nucleus.*

Elizabeth J. Wolffe, of Columbia, MD; B.Sc., University of Birmingham (England), 1980; M.Sc., Chelsea College, University of London, 1984. Pharmacology and Molecular Sciences. *Biochemical and Structural Studies of Pgp-1(CD44): A Novel Adhesion Molecule with Properties of a Hyaluronic Acid-Binding Proteoglycan.*

Hui Zhang, of Hangzhou, Zhejiang Province, China; B.S., Peking University, 1982. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. *Studies of DNA Conformation Dynamics in Eukaryotic Cells.*

Jie Zhang, of Shanghai, The People's Republic of China; B.S., Fudan University, 1985. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Phosphorylation of the Carboxyl-terminal Domain of the RNA Polymerase II Largest Subunit.*

# *Doctors of Philosophy in The G.W.C. Whiting School of Engineering*

Martin Jay Appel, of Milwaukee, Wis.; B.S. University of Wisconsin-Milwaukee, 1985; M.S.E. The Johns Hopkins University, 1987. Mathematical Sciences. *AB Percolation.*

Dorota Monika Artymowicz, of Warsaw, Poland. Materials Science and Engineering. *Structural and Magnetic Behavior of Melt-Spun $PrFe_2$ Alloys.*

Ilse Ilene Blumentals, of Santa Fe, Caracas, Venezuela; Licentiate in Biology, Simon Bolivar University, 1984. Chemical Engineering. *Characterization of Growth Physiology, Cell-Sulfur Interaction and SDS-Resistant Proteolytic Activity in the Hyperthermophilic Archaebacterium Pyrococcus furiosus.*

Leonidas Boutsikaris, of Athens, Greece; Diploma, National and Kapodistrian University of Athens, Greece, 1981; M.S. University of Michigan-Ann Arbor, 1982; M.S.E. The Johns Hopkins University, 1987. Electrical and Computer Engineering. *Homodyne Detection using Photorefractive Materials as Beam Splitters.*

Kathleen Ruth Breen, of Baltimore, Md.; B.S. University of Rochester, 1976; M.S.E. The Johns Hopkins University, 1985. Materials Science and Engineering. *Interfacial Dislocation Structures in $In_XGa_{1-X}As/GaAs$ Mismatched Epitaxy.*

Ingrid Karin Busch, of Baltimore, Md.; M.S.E. The Johns Hopkins University, 1988. Mathematical Sciences. *Vehicle Routing on Acyclic Networks.*

Harold Edward Conn, of Columbia, Md.; B.A. Western Maryland College, 1971; M.S. The Johns Hopkins University, 1976. Computer Science. *Some Polygon Decomposition Problems.*

John Broddus Deaton, Jr., of Manakin, Va.; B.E.S. The Johns Hopkins University, 1983; M.S.E., 1986. Materials Science and Engineering. *A Long-Cavity Mode-Locked Laser for Noncontact Generation of Narrowband Ultrasound.*

Matthew Galen Diaz, of Dallas, Texas; B.E.S. The Johns Hopkins University, 1982; M.S.E., 1982. Computer Science. *Algorithms for Balanced Partitioning Polygons and Point Sets.*

Ronald Anthony Dombro, Jr., of Calumet City, Ill.; B.S. University of Illinois, 1982. Chemical Engineering. *Electrochemistry in Supercritical Organic Mixtures.*

Ramani Duraiswami, of Bombay, India. Mechanical Engineering. *I. Effective equations for sound propagation in fogs. II. Orthogonal mapping in two dimensions.*

Judith Ann Giannini, of Laurel, Md.; B.S. Drexel Institute of Technology, 1971; M.S., 1976. Electrical and Computer Engineering. *The Propagation of Bright and Dark Spatial and Temporal Solitons in Nonlinear Optical Materials.*

Stephen Lee Golledge, of Wichita, Kan.; B.S. Wichita State University, 1982. Materials Science and Engineering. *Effect of Oxide Film Properties on the Corrosion Behavior of SiC/Al Composites.*

Ruth Ellen Herzog, of Plantation, Fla.; B.A. Bryn Mawr College, 1984. Chemical Engineering. *Inhibiting Calcium Carbonate Scale Formation.*

David Earl Hess, of Baltimore, Md.; B.S. Loyola College, 1982. Mechanical Engineering. *An Experimental Investigation of a Compliant Surface Beneath a Turbulent Boundary Layer.*

Murad Hizlan, of Istanbul, Turkey; B.S. Bogazici University, 1985; M.S.E. The Johns Hopkins University, 1987. Electrical and Computer Engineering. *Optimal Random Modulation for Robust Communication.*

Ronald Alan Holser, of Sarasota, Fla.; B.S. University of Maryland, 1980; M.S., 1982. Chemical Engineering. *Modeling of Cathodic Protection Systems by the Finite Element Method.*

Jie Huang, of Fuzhou, Peoples Republic of China; M.A. East China Institute of Technology, 1982; M.S.E. The Johns Hopkins University, 1990. Electrical and Computer Engineering. *On the Servomechanism and Noninteracting Control Problems for Nonlinear Systems.*

Sivakolunthunathan Kesavanathan, of Chulipuram, Sri Lanka; B.S. University of Peradeniya, Sri Lanka, 1981; M.S.E. The Johns Hopkins University, 1987. Civil Engineering. *Radiation Boundary for Dynamic Soil-Structure Interaction Analysis in Time Domain.*

Xuan Kong, of Chengdu, Peoples Republic of China, Va.; B.S. Sichuan University, 1984; M.S.E. The Johns Hopkins University, 1989. Electrical and Computer Engineering. *Averaging Analysis of Adaptive Algorithms.*

Alan Jed Kosansky, of Penn Wynne, Pa.; B.S. Rutgers University, 1985; M.S.E. The Johns Hopkins University, 1988. Mathematical Sciences. *Preparation Cost Structures in Inspection Games.*

Adriano Maria Lezzi, of Milan, Italy; Laurea, Universita Degli Studi di Milano, 1985. Mechanical Engineering. *Topics in Free-Surface Flows.*

Xuyong Liu, of Sichuan, Peoples Republic of China; B.S. Sichuan University, 1984; M.S.E. University of Michigan, 1986. Electrical and Computer Engineering. *Trap vs. Absorber Model for Semiconductor Laser Dynamics.*

Nan Qian Lu, of New York, N.Y.; M.S.E. The Johns Hopkins University, 1986. Mechanical Engineering. *Bubble Clouds as Sources and Scatterers of Underwater Sound.*

Ning Lu, of Fuzhou, Fujian, Peoples Republic of China; B.S. Wuhan Institute of Building Materials, 1982; M.S., 1984; M.S.E. The Johns Hopkins University, 1988. Civil Engineering. *Numerical Study of the Electrical Double-Layer Repulsion Between Nonparallel Clay Particles of Finite Length.*

Gregory Leo Makar, of Ellicott City, Md.; B.S. Virginia Polytechnic Institute and State University, 1985; M.S.E. The Johns Hopkins University, 1988. Materials Science and Engineering. *Stress Corrosion Cracking of Rapidly Solidified Magnesium-Aluminum Alloys.*

Jennifer Mary O'Connor, of Croton-on-Hudson, N.Y.; B.S. The Johns Hopkins University, 1984; M.S.E., 1986. Civil Engineering. *Analysis of Site-dependent Effects on the Nonlinear Response of Structural Systems subjected to Seismic Loading.*

Aleksandra Dimitrijevic Pavasovic, of Belgrade, Yugoslavia; M.S.E. The Johns Hopkins University, 1989. Electrical and Computer Engineering. *Subthreshold Region in MOSFET Mismatch Analysis and Modeling for Analog VLSI Systems.*

Erica Ray Petersen, of Ellicott City, Md.; B.S. College of William and Mary, 1980; M.A. The Johns Hopkins University, 1982. Materials Science and Engineering. *Electromagnetic Attenuation by Solid Particle Aerosols.*

Narayan Rangaraj, of Bombay, India; B.Tech. Indian Institute of Technology, 1986. Mathematical Sciences. *Nonsmooth Optimization: Algorithms and Applications.*

David Victor Rosowsky, of Needham, Mass.; B.S. Tufts University, 1985; M.S., 1987. Civil Engineering. *Stochastic Damage Accumulation and Probabilistic Codified Design for Wood.*

Dan Schonfeld, of Northridge, Calif.; M.S.E. The Johns Hopkins University, 1988. Electrical and Computer Engineering. *Optimal Morphological Representation and Restoration of Binary Images: Theory and Applications.*

Xuning Shan, of Beijing, Peoples Republic of China; B.Eng. Daqing Petroleum Institute, 1982. Chemical Engineering. *Electrochemical Impedance Spectroscopy of the Zinc/KOH System.*

Harry Wroth Shenton III, of Phoenix, Md.; B.C.E. University of Delaware, 1982; M.C.E., 1984. Civil Engineering. *Response of Rigid Bodies to Base Excitation.*

Jhih-Shyang Shih, of Panchiao, Taiwan, Republic of China; B.S. National Cheng Kung University, 1981; M.S., 1983. Geography and Environmental Engineering. *Water Supply Operations During Drought.*

James Brian Spicer, of Columbia, Md.; B.S. Southern Methodist University, 1985. Materials Science and Engineering. *Laser Ultrasonics in Finite Structures: Comprehensive Modelling with Supporting Experiment.*

Steven Jay Steinsaltz, of Coral Springs, Fla.; B.S. The Johns Hopkins University, 1985; M.A., 1985. Mathematical Sciences. *Sequencing Jobs for a Machine Subject to Weardown.*

Grover Arthur Swartzlander, Jr., of Toledo, Ohio. Electrical and Computer Engineering. *Observations of Continuous-Wave Self-Deflection and Spatial Dark Solitary Waves in Nonlinear Media.*

Erik Achille Swyngedouw, of Leuven, Belgium. Geography and Environmental Engineering. *The Production of New Spaces.*

Tony George Thomas, of Bangalore, India; M.S.E. The Johns Hopkins University, 1989. Electrical and Computer Engineering. *Random Modulation for Arbitrarily Varying Channels.*

Ann Natalie Trenk, of New York, N.Y.; B.A. Harvard University, 1985. Mathematical Sciences. *Generalized Perfect Graphs.*

Zhiping Wang, of Hunan, Peoples Republic of China; B.S.E. Beijing Institute of Aeronautics and Astronautics, 1982; M.S. Columbia University, 1984. Mathematical Sciences. *Continuation Methods for Solving the Variational Inequality and Complementarity Problems.*

Tsunemi Watanabe, of Sapporo, Japan; B.A. Hokkaido University, 1983; M.S.E. The Johns Hopkins University, 1986. Geography and Environmental Engineering. *New Stochastic Programming Models for Environmental Decision Making Under Uncertainty.*

James Joseph Zimmerman, of Houston, Texas; B.S. Texas A & M University, 1980; M.S. Rice University, 1983. Civil Engineering. *Analysis of Structural System Reliability with Stochastic Programming.*

# *Doctors of Philosophy in The School of Arts and Sciences*

Margaret Kate Aisenberg, of Boston, Mass.; M.A. The Johns Hopkins University, 1986. English. *The Exploded Image: Ekphrasis in the Poetry and Prose of William Wordsworth, W. H. Auden, and Philip Larkin.*

Syed Farid Alatas, of Kuala Lumpur, Malaysia; B.S. University of Oregon, 1983; M.A. The Johns Hopkins University, 1988. Sociology. *The rise of democratic and authoritarian post-colonial states: the case of Indonesia and Malaysia.*

Robin Stacey Avner, of Pittsburgh, Pa.; B.A. Amherst College, 1982. Humanities. *Literature as Leaven: George Eliot on Fiction, Figurative Language, and Culture.*

Suzanne Jean Baker, of Worthington, Ohio; B.A. Miami University, 1986. Biology. *Identification of p53 Gene as a Tumor Suppressor Gene in Colorectal Carcinoma.*

Kalpana Balakrishnan, of New Delhi, India; B.S. All India Institute of Medical Sciences, 1983. Biophysics. *Sulfhydryl Reagents Regulate and Modulate the Light/cGMPDependent Cation Channel of Bovine Rod Photoreceptors.*

Jillian Fiona Banfield, of Enmore, Australia; B.S. Australian National University, 1982; M.A. The Johns Hopkins University, 1989. Earth and Planetary Sciences. *HREM studies of subsolidus alteration, weathering, and subsequent diagenetic and lowgrade metamorphic reactions.*

Rebecca Belle Bateman, of Joplin, Mo.; B.A. University of Oklahoma, 1978; M.A., 1980; M.A. The Johns Hopkins University, 1989. Anthropology. *We're Still Here: History, Kinship, and Group Identity Among the Seminole Freedmen of Oklahoma.*

Andreas Demetrios Baxevanis, of Baldwin, N.Y.; B.S. Cornell University, 1984. Biology. *A Physicochemical Characterization of the Core Histone Octamer and its Subunits.*

Rebecca Lynn Bernat, of Baltimore, Md.; B.S. Portland State University, 1982. Biology. *The Human Centromere Proteins CENPs A,B, and C: An in vivo Analysis of Centromere Structure and Function.*

Susan Zeldes Bernstein, of Providence, R.I.; M.A. University of California-Berkeley, 1983. Humanities. *Virtuosity of the Nineteenth-Century: Music and Language in Heine, Liszt and Baudelaire.*

Richard Francis Braaten, of Starkville, Miss.; B.A. Duke University, 1982; M.A. The Johns Hopkins University, 1988. Psychology. *Auditory Perceptual Organization by a Songbird, the European Starling (Sturnus Vulgaris).*

Maurice Joseph Bric, of Cahirciveen, Ireland; B.A. University College, Cork, Ireland, 1974; M.A. The Johns Hopkins University, 1979. History. *Ireland, Irishmen and the Broadening of the Late Eighteenth-Century Philadelphia Polity.*

Lawrence C. Brody, of Havertown, Pa.; B.S. Pennsylvania State University, 1982. Biology. *Functional Consequences of Mutations at the Ornithine-delta-Aminotransferase Locus.*

Rebecca Williams Carmody, of Trenton, N.J.; B.S. University of Connecticut, 1984; M.A. The Johns Hopkins University, 1986. Earth and Planetary Sciences. *The slaufrudalur Stock of Southeast Iceland: Geology, Geochemistry and Petrogenesis.*

Kun-Ming Chen, of Taipei, Taiwan, Republic of China; B.A. National Taiwan University, 1975; M.A., 1980; M.A. The Johns Hopkins University, 1987. Economics. *The Determinants of Mergers: A Comparative Study of Postwar Merger Activity in Japan and the United States.*

Roger Duane Congdon, of Vancouver, Wash.; A.S. Mt. Hood Community College, 1980; B.S. Portland State University, 1983. Earth and Planetary Sciences. *Solidification of the Shonkin Sag Laccolith: Mineralogy, Petrology, and Experimental Phase Equilibria.*

Thomas Ernest Abell Dale, of London, Ontario, Canada; B.A. University of Toronto, 1984; M.A. The Johns Hopkins University, 1985. History of Art. *The Crypt of the Basilica Patriarcale at Aquileia: Its Place in the Art and History of the Upper Adriatic.*

Stacie Ann Dalrymple, of Palo Alto, Calif.; B.A. Occidental College, 1986. Biology. *BK virus T antigens induce kidney carcinomas and thymoproliferative disorders in transgenic mice.*

Carolyn Jeanne Decker, of Phoenix, Ariz.; B.A. Colorado College, 1982. Biology. *RNA Editing: Characterization of Partially Edited RNAs and Initial Recognition of Editing Domains.*

Joan Patterson Del Pozzo, of Piermont, N.H.; M.A. Middlebury College, 1972; M.A. The Johns Hopkins University, 1989. Hispanic and Italian Studies. *Speaking in Imagery, Speaking in Ecstacy: A Discussion of Saint Catherine of Siena's Language and Style.*

Michael Aaron Dennis, of Silver Spring, Md.; B.A. University of Pennsylvania, 1982. History of Science. *A Change of State: The Political Cultures of Technical Practice at the MIT Instrumentation Laboratory and The Johns Hopkins University Applied Physics Laboratory, 1930-1945.*

Bill Michael Donovan, of Odessa, Texas; B.A. University of Texas at Austin, 1975; M.A. The Johns Hopkins University, 1981. History. *Commercial Enterprise and Luso-Brazilian Society during the Brazilian Gold Rush: the Mercantile House of Francisco Pinheiro and the Lisbon to Brazil Trade, 1695-1750.*

David Charles Drewer, of Dundalk, Md.; B.A. The Johns Hopkins University, 1983; M.A., 1985. Physics and Astronomy. *Measurement of the Michel Parameter for Leptonic Tau Decay.*

Gloria Eisenstadt, of Philadelphia, Pa.; B.A. Temple University, 1979; M.A., 1982. Earth and Planetary Sciences. *Structural Evaluation of the Innuitian Fold and Thrust Belt, Central Ellesmere and Axel Heiberg Islands, Arctic Canada.*

John Frederic Engelhardt, of Hockessin, Del.; B.S. Iowa State University, 1985. Biology. *Transcriptional Regulation of the Ornithine Aminotransferase Gene: Evidence for Specific Cis and Transacting Factors for Urea Cycle Related Genes.*

Andrea Erdas, of Cagliari, Italy; Laurea, University of Caglieri, 1983; M.A. The Johns Hopkins University, 1986. Physics and Astronomy. *Magnetic Field Effects on Lagrangians and Neutrino Self-Energies in the Salam-Weinberg Theory in Arbitrary Gauges.*

Charles Christopher Euchner, of Worcester, Mass.; M.A. The Johns Hopkins University, 1988. Political Science. *The Sports of Urban Politics: Cities and Professional Franchise Location in the 1980's.*

Ian Christopher Fletcher, of Newark, Del.; B.A. Harvard University, 1979; M.A. The Johns Hopkins University, 1984. History. *Liberalism and the Rule of Law: Protest Movements, Public Order, and the Liberal Government, 1905-14.*

Marcie Andrea Frank, of Hampstead, Quebec, Canada; M.A. The Johns Hopkins University, 1986. English. *The Critical Stage: The Essays of John Dryden, 1660-1685.*

Julie Anna Fulcher, of Morehead City, N.C.; B.S. Pennsylvania State University, 1987; M.A. The Johns Hopkins University, 1989. Psychology. *Modeling Romantic Jealousy: From Description to Causal Analysis.*

Masaaki Furusawa, of Tokyo, Japan; B.S. University of Tokyo, 1981; M.S. Tokyo Institute of Technology, 1983. Mathematics. *On Fourier coefficients of Eisentein series on GO(5,2).*

Eric Graham Garberson, of Edmonds, Wash.; B.A. Pomona College, 1983; M.A. The Johns Hopkins University, 1984. History of Art. *Places for Books: Monastic Libraries of the Seventeenth and Eighteenth Centuries in South Germany.*

Bryant Anthony Gilbert, of Boston, Mass. Chemistry. *Total Synthesis of a Prostaglandin $I_2$ Analog and New Silicon-Directed Organic Reactions.*

Dennis A. Gilbert, of Frederick, Md.; B.A. University of California-San Diego, 1983. Biology. *Application of DNA Fingerprinting to Measure the Genetic Structure of Populations.*

Marc Joseph Gotlieb, of Toronto, Ontario, Canada; B.A. University of Toronto, 1980; M.Phil. University of Oxford, England, 1982; M.A. The Johns Hopkins University, 1985. History of Art. *From Genre to Decoration: Studies in the Theory and Criticism of French Salon Painting.*

Jane Louise Gray, of Sligo, Ireland; B.A. University of Dublin, 1984; M.A. The Johns Hopkins University, 1990. Sociology. *Rural Industry and Uneven Development In Ireland: Region, Class and Gender, 1780-1840.*

Todd Lamar Graybill, of Manheim, Pa.; B.S. Juniata College, 1984; M.A. The Johns Hopkins University, 1988. Chemistry. *The Application of Silyl Triflate-Mediated Rearrangements and Cyclizations for the Preparation of Dihydro- and Tetrahydrobisfuran-Containing Intermediates in Aflatoxin Biosynthesis.*

Lora Marie Green, of Auburn, N.Y. Chemistry. *Metal Binding Studies of a Retroviral Nucleocapsid Protein and Related Peptides.*

Carlos Jesus Gutierrez, of San Antonio, Texas; B.S. University of Dallas, 1983; M.A. The Johns Hopkins University, 1987. Physics and Astronomy. *The Magnetic Properties of Iron-Silver and Iron-Nickel Multilayers Grown by Molecular Beam Epitaxy.*

Alexandra Woltjer Halasz, of West Braintree, Vt.; B.A. Reed College, 1974; M.A. The Johns Hopkins University, 1984. English. *Paper Monsters: Pamphlets, Writers and Printing in England at the End of the Sixteenth Century.*

Richard John Harknett, of Fair Lawn, N.J.; B.A. Villanova University, 1985; M.A. The Johns Hopkins University, 1989. Political Science. *Conventional Deterrents and Strategic Change.*

Walter Sims Harley, of Peninsula, Ohio; B.A. The Johns Hopkins University, 1986; M.A., 1988. Psychology. *Associative Memory in Mental Arithmetic.*

Brian David Harral, of Bedford, Texas; B.A. Rice University, 1985; M.A. The Johns Hopkins University, 1986. Physics and Astronomy. *Measurement of the Z Boson Resonance Parameters.*

Douglas Allan Harrison, of Clifton Springs, N.Y. Biology. *Analysis of the suppressor of Hairy wing locus, a gene encoding a putative transcription factor of Drosophila.*

Takehiko Hashimoto, of Tokyo, Japan; B.L.A. University of Tokyo, 1980; M.S., 1982. History of Science. *Theory, Experiment and Design Practice: the Formation of Aeronautical Research, 1909-1930.*

Albert Isteero-Farag, of Cairo, Egypt; B.D. Hartford Seminary Foundation, 1961; M.A., 1961; Th.M. Princeton University, 1978; M.A. The Johns Hopkins University, 1980. Near Eastern Studies. *Abdullah Muslim Ibn Qutayba's Biblical Quotations and their Source. An Inquiry into the Earliest Existing Arabic Bible Translations.*

Elizabeth Anne James, of Bellevue, Wash.; B.A. Pacific Lutheran University, 1978. Biology. *Fluorescence Characterization and Energy Transfer Studies of Staphylococcal Nuclease.*

Jeremy Alan Johnson, of Greenbush, Va.; B.A. University of Virginia, 1984. Biology. *Studies on an Intermediate Ligation Species of Human Hemoglobin Using Hybrid Kinetics and Cryoisoelectric Focusing Methods.*

Jan Horst Keppler, of Schöenaich, Germany; M.A. The Johns Hopkins University, 1988. Economics. *Monopolistic Competition Theory 1926-1941.*

Hyo Suk Kim, of Philadelphia, Pa.; B.A. Princeton University, 1984. Biology. *Transcriptional Regulation of Hydrogenase Synthesis in Bradyrhizobium japonicum.*

Amy Sarah Kimball, of San Diego, Calif. Biology. *Conformationally-Defined Holliday Structures and Flp-Mediated Recombination.*

Richard Lynn Kramer, of Dubuque, Iowa; M.A. The Johns Hopkins University, 1987. Mathematics. *The Periodic Hopf Ring of Connective Morava KTheory.*

Wai-Ping Lam, of Hong Kong; B.S. University of Hong Kong, 1983; M.A. The Johns Hopkins University, 1984. Physics and Astronomy. *Neutrino Physics in the Majoron Model.*

Katherine Tallman Landschulz, of Los Alamos, N.M. Biology. *In Vitro Maturation of Murine Erythroid Colony-Forming Units: Studies of Cell Surface Cell Cycle and Erythropoietin Action.*

Laurie Buonanno Lanze, of Buffalo, N.Y.; B.S. State University of New York at Buffalo, 1979; M.B.A., 1982. Political Science. *Employee Ownership in the United States, the United Kingdom, and Italy: A Cross-National Comparison of Public Policy, Support Organizations and Labor Unions.*

Michael Saul Lapp, of Santa Rosa, Calif.; B.A. University of California-Berkeley, 1980; M.A. The Johns Hopkins University, 1982. History. *Managing Migration: The Migration Division of Puerto Rico and Puerto Ricans in New York City, 1948-1968.*

Barbara Ellen Kerr Larcom, of Baltimore, Md.; B.A. Ohio State University, 1967; M.A., 1971. Sociology. *Sex Differences in Worker Autonomy.*

Margaret Joan Leahey, of Winooski, Vt.; B.A. Trinity College, 1962; M.A. University of Virginia, 1964. Humanities. *"To Hear with My Eyes"; The Native Languages in the Jesuit Relations.*

Annette Irene Leduc, of Burlington, Vt.; B.A. Smith College, 1981; M.A. The Johns Hopkins University, 1983. History of Art. *Gavarni: The London Years (1847-1851).*

Chin-Jung Lee, of Taipei, Taiwan, Republic of China; B.A. National Taiwan University, 1974; M.A. Tamkang University, 1985. Political Science. *The Coordination of U.S. Trade Policy-Making: The Role of the United States Trade Representative (USTR).*

Albert Leger, of Caraquet, N.B., Canada; B.A. Harvard University, 1984; M.S. University of New Brunswick, 1987; M.A. The Johns Hopkins University, 1988. Earth & Planetary Sciences. *Regional Metamorphism of the Waits River Formation, Northeastern Vermont.*

Suiwah Edna Leung, of New South Wales, Australia; B.A. University of New South Wales, 1969; M.A., 1977; M.A. The Johns Hopkins University, 1986. Economics. *A Portfolio Balance Model of a Managed Exchange Rate—The Australian Case.*

Vincent Jerry Licata, of Orlando, Fla.; B.A. University of Florida, 1983. Biology. *Resolving Pathways of Functional Coupling in Human Hemoglobin Using Quantitative Low-Temperature Isoelectric Focusing of Asymmetric Mutant Hybrids.*

Chia-Jyi Liu, of Chia-I, Taiwan, Republic of China; B.S. National Taiwan University, 1984; M.A. The Johns Hopkins University, 1990. Chemistry. *Synthesis and Characterization of Complex Metal Oxides with Perovskite-Related Structures.*

Margaret Thair Mangan, of Annandale, Va.; B.S. University of Maryland, 1980; M.S. Virginia Polytechnic Institute and State University, 1983. Earth & Planetary Science. *Crystallization and Differentiation in mafic magmas.*

Nicholas Joseph Marini, of La Jolla, Calif.; B.S. Georgetown University, 1983. Biology. *Fate and Replication of Plasmid DNA Microinjected into Early Embryos of Xenopus laevis.*

John William Marshall, of London, England; B.A. Churchill College-Cambridge, 1983; M.A. The Johns Hopkins University, 1985. History. *John Locke in Context: Religion, Ethics and Politics.*

Nicos Martys, of Canandaigua, N.Y.; B.A. State University of New York College at Geneseo, 1976; M.A., 1982; M.A. The Johns Hopkins University, 1984. Physics & Astronomy. *Critical Phenomena in Fluid Invasion of Porous Media.*

Russell Lee McCally, of Columbia, Md.; M.S. The Johns Hopkins University, 1973; M.A., 1982. Physics & Astronomy. *Magnetism in Amorphous Iron Based Alloys: The Iron-Phosphorous and Iron-Aluminum-Boron Systems.*

Denise Lynn Merkle, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1982; M.A. The Johns Hopkins University, 1990. Chemistry. *Metal Binding Studies of Zinc Finger Peptides.*

Alice Mary O'Connor, of New York, N.Y.; M.A. The Johns Hopkins University, 1982. History. *From Lower Class to Underclass: The Poor in American Social Science, 1930-1970.*

Robert Anthony Olwell, of Sussex, Wis.; B.A. University of Wisconsin-Milwaukee, 1983; M.A. The Johns Hopkins University, 1987. History. *Authority and Resistance: Social Order in a Colonial Slave Society: The South Carolina Lowcountry, 1739-1782.*

Partha Pratim Paul, of New Delhi, India. Chemistry. *Interaction of Dioxygen, Nitrogen Oxides and Other Small Molecules with Mono-and Dinuclear Copper (I) Complexes.*

Brenda Ann Peculis, of Chicago, Ill.; B.A. Loyola University of Chicago, 1984. Biology. *Localization of the Nucleolar Protein NO38 in Amphibian Oocytes.*

Yi-Chuan Pei, of Xian, Shanghim, Peoples Republic of China; B.S. University of Science & Technology of China, 1982; M.A. The Johns Hopkins University, 1984. Physics & Astronomy. *Search for Cosmological Dust.*

Mark David Phillips, of Hebron, Conn. Biology. *Analysis of polycombeotic and defective dorsal discs, Two Genes Involved in Fundamental Growth Processes of Drosophila melanogaster.*

Todd Douglas Pihl, of North Oaks, Minn.; B.A. St. Olaf College, 1984. Biology. *Aspects of Hydrogen Metabolism in the Hyperthermophilic Archaebacterium Pyrodictium brockii.*

Zi-qiang Qiu, of Beijing, Peoples Republic of China; B.S. Peking University, 1984; M.A. The Johns Hopkins University, 1986. Physics & Astronomy. *Investigations of Magnetic Thin Films and High $T_C$ Superconductivity.*

Stephen Quirk, of Baltimore, Md.; B.S. University of Rochester, 1985. Biology. *Studies on the Escherichia coli Deoxyguanosine Triphosphate Triphosphohydrolase: from Gene to Enzyme.*

Richard Michael Rambuss, of Buffalo, N.Y.; B.A. Amherst College, 1983; M.A. The Johns Hopkins University, 1986. English. *The Secretary's Closet: Spenser's Poetics of Secrecy.*

Brenda Carla Rapp, of Tamarac, Fla.; B.S. University of Maryland, 1979; M.A. The Johns Hopkins University, 1987. Psychology. *Sublexical orthographic structure in reading.*

Steven Anthony Reeves, of San Rafael, Calif.; B.S. University of California, 1985; M.A. The Johns Hopkins University, 1987. Biology. *A Molecular Approach to the Study of Astrocyte-specific gene expression in normal and neoplastic tissues.*

Jane Anne Reiland, of Menasha, Wis.; B.S. Marquette University, 1982. Biology. *Studies of the Molecular Association of Class I MHC Antigens with Insulin Receptors in the Plasma Membrane of HLA Mutant B Lymphoblasts.*

Karen Jane Renaud, of Long Valley, N.J.; B.S. Massachusetts Institute of Technology, 1984. Biology. *Molecular Analysis of Na,K-ATPase Subunit Assembly.*

Seung Keun Rhee, of JoongGu Taegu, Korea; B.S. Yeungnam University, 1982. Biology. *Immunoaffinity Purification of Connexin32 and its Functional Reconstitution into Single Phospholipid Membranes.*

Kevin Christopher Robbins, of Portland, Ore.; B.A. Reed College, 1981; M.A. The Johns Hopkins University, 1987. History. *The Families and Politics of La Rochelle, 1550-1650.*

Elizabeth Ellen Roettger, of Chardon, Ohio; B.A. Hiram College, 1983; M.A. The Johns Hopkins University, 1986. Physics and Astronomy. *Comparison of Cometary Comae Using Ultraviolet Spectroscopy: Composition and Variation.*

Charles C. Ruthheiser, of Rockville Center, N.Y.; B.A. New College, 1983; M.A. The Johns Hopkins University, 1986. Anthropology. *Culture, Schooling and Neocolonialism in Belize.*

Patricia Clare Ryan, of Arlington, Va.; B.A. University of Virginia, 1985; M.A. The Johns Hopkins University, 1989. Chemistry. *Characterization of the Interaction Between Escherichia coli Ribosomal Protein L11 and the 23S Ribosomal RNA GTPase Center.*

Karen Sánchez-Eppler, of Croton-On-Hudson, N.Y.; B.A. Williams College, 1981; M.A. The Johns Hopkins University, 1985. English. *Touching Liberty: Abolition, Feminism and the Politics of the Body from the Sentimental to the Lyric.*

Deborah Gibbs Sauder, of Fredricksburg, Va.; B.S. College of William and Mary, 1976; M.S. University of Illinois, 1979. Chemistry. *Laser Induced Fluoresence Studies of Gas-Phase Free Radical Collisional Processes.*

Melinda Wilcox Schlitt, of Ossining, N.Y.; B.A. State University of New York, 1981; M.A. The Johns Hopkins University, 1982. History of Art. *Francesco Salviati and the Rhetoric of Style.*

David Joseph Shide, of Laramie, N.D.; M.A. The Johns Hopkins University, 1988. Psychology. *Opioid and Nonopioid Modulation of Affect and Antinociception in Infant Rats: Influences of Gustatory and Tactile Stimulation.*

James Sidbury of Bethesda, Md.; B.A. The Johns Hopkins University, 1980; M.A., 1987. History. *Gabriel's World: Race Relations in Richmond, Virginia, 1750-1810.*

Pamela Helen Smith, of Bishop, Calif.; B.A. University of Wollongong-Australia, 1979. History of Science. *Alchemy, Credit and the Commerce of Words and Things: Johann Joachim Becher at the Courts of the Holy Roman Empire, 1635-82.*

Carl Spana, of Mt. Vernon, N.Y. Biology. *Interaction of the suppressor of Hairywing protein with the gypsy transposable element.*

Carole Jean Spangler, of Tacoma, Wash. Biology. *The Role of the Zinc Atoms and Sulfhydryl Groups in the Maintenance of the Quaternary Structure of Horse Liver Alchohol Dehydrogenase: A Fluorescence Study.*

Philip Calhoun Speros, of Painesville, Ohio. Biology. *Molecular Switching in Human Hemoglobin: Probing Cooperativity with the Dimer-Tetramer Assembly Energetics of Cobalt (II) Hemoglobin and Cobalt (II)/Iron (II)-Carbon Monoxide Hybrid Tetramers.*

Malina Stefanovska, of Beograd, Yugoslavia; B.A. University des Langues at Lettres-de Grenoble, France, 1973; M.A. University of Oregon, 1984; M.A. The Johns Hopkins Univesity, 1986. French. *Le Portrait et la Cérémonie: Saint-Simon historien des "mutations funestes".*

Michimasa Tanabe, of Higashimatsuyama-shi, Japan; B.S. Kyoto University, 1987; M.S., 1989. Mathematics. *On certain periodic cohomologies of Chevalley groups.*

Huan Tang, of Zhejiang, Peoples Republic of China; M.A. The Johns Hopkins University, 1984. Physics and Astronomy. *Investigations of High-Tc Superconductors and Magnetic Thin Films.*

Joseph Paul Taormino, of Mantoloking, N.J.; B.A. Cornell University, 1984. Biology. *Expression and Regulation of the Na, K-ATPase mRNAs in Chicken Skeletal Muscle and Rat Liver Cells.*

Rafael Alberto Tenorio, of Lima, Peru; B.A. Universidad de Lima, Peru, 1984; M.A. The Johns Hopkins University, 1986. Economics. *Multiple Unit Auctions with an Application to Foreign Exchange Markets.*

Thomas Joseph Thomas, of Orange, Calif.; B.A. California State University-Fullerton, 1984; M.A. The Johns Hopkins University, 1989. Psychology. *Computer-Based Adaptive Mastery Testing in Multiple Content Areas: New Procedures for Mastery Testing.*

Peter Alan Thompson, of Farmington, Conn.; B.S. Stanford University, 1985; M.A. The Johns Hopkins University, 1986. Physics and Astronomy. *Dynamics of Fluids Near Solid Interfaces.*

Anthony Eugene Ting, of Potomac, Md.; B.A. Amherst College, 1984. Biology. *A Phosphatidylinositol-specific Phospholipase C at the Surface of Density dependanent Cells and its Potential Role in the Regulation of a Cell Growth.*

Michael Carlton Tolley, of Brookline, Mass.; B.A. Swarthmore College, 1984; M.A. The Johns Hopkins University, 1987. Political Science. *State Constitutionalism in Maryland.*

Henry Charles Topper, of Baltimore, Md.; B.A. University of Notre Dame, 1967. Political Science. *From the Commune to the Cultural Revolution: A Discussion of Party Leadership and Democracy in Lenin and Mao.*

Mary Elizabeth Treadway, of Delmar, N.Y.; B.A. Hamilton College, 1985; M.A. The Johns Hopkins University, 1988. Psychology. *An investigation of juror comprehension of statistical proof of causation.*

Jay Corell Tribby, of Winston-Salem, N.C.; B.W. Wesleyan University, 1981. Humanities. *Eloquence and Experiment: The Civil Gestures of Inquiry in 17th Century France and England.*

Shwu-Chen Tsay, of Taipei, Taiwan, Republic of China; B.S. National Taiwan University, 1985; M.A. The Johns Hopkins University, 1990. Chemistry. *Efficient Organic Reactions and Polymerizations by Use of Organosilicon Reagents.*

Jenn-Hwa Tu, of Taipei, Taiwan, Republic of China; B.S. National Taiwan University, 1977; M.A. Thammasat University, 1981; M.A. The Johns Hopkins University, 1985. Economics. *Direct Foreign Investment and Economic Growth: A Case Study of Taiwan.*

Thomas Paul Urbach, of Portola Valley, Calif.; B.A. University of California, 1983; M.A. The Johns Hopkins University, 1987. Philosophy. *Questions of Meaning: A Discourse of Theoretic Alternative to Truth Conditional Semantics for the Interrogative Mood.*

Martine Carmen Voiret, of Paris, France; Licence, Amiens University, 1978; M.A. Duke University, 1982; M.A. The Johns Hopkins University, 1986. French. *Inceste au siecle des Lumieres: un cas d'exception, Restif de la Bretonne.*

Neal Hugh Walls, Jr., of Wooster, Ohio; B.A. The College of William and Mary, 1984; M.A. University of Virginia, 1986. Near Eastern Studies. *The Goddess Anat in Ugaritic Myth.*

Naelong Wang, of Taipei, Taiwan, Republic of China; B.S. National Hua Tsing Hua University, 1980; M.A. The Johns Hopkins University, 1989. Chemistry. *Development of Organosilicon Compounds as Counterattack Reagents and Studies on Fundamental Properties of Silicon.*

Jennifer Welchman, of Brooklyn, Conn.; B.A. University of Massachusetts, 1981; M.A. The Johns Hopkins University, 1984. Philosophy. *The Development of John Dewey's Moral Epistemology.*

Xufeng Wu, of Shanghai, Peoples Republic of China; B.S. Shanghai Jiao Tong University, 1982. Biophysics. *A Quasi-elastic Light Scattering Study of Smooth Muscle Myosin.*

Dongyuan Yao, of Suzhou, Peoples Republic of China; M.A. The Johns Hopkins University, 1990. Mathematics. *Higher algebraic K-theory of admissable abelian categories and locolization theorems.*

Qien Zhou, of Shanghai, Peoples Republic of China; B.S. East China Normal University, 1982; M.A. The Johns Hopkins University, 1989. Mathematics. *The Homology of the Double Loop Space of the Thom Space MU(2).*

Nurith Zmora, of Herzlya, Israel; B.A. Hebrew University of Jerusalem, 1975; M.A. The Johns Hopkins University, 1985. History. *Orphanages in Baltimore at the Turn of the Century: A Comparative Study.*

The Johns Hopkins University • Homewood Campus • Baltimore, Maryland 21218

Office of The Registrar
75 Garland Hall

August 1, 1991

For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 1991 Commencement Program:

1. Bachelor of Arts (Arts and Sciences) pages 25-28

Add: Inzune Kim Hwang, of Olney, Md.
Meredith Alix Jacobson, of Columbia, Md.
Jeremiah Michael Wolsk, of Westport, Conn.

Delete: Ali Bahadori
Wonjae Choi
Charles Morgan Fife III
Dennis T. Hoban
Kadijah Jones
Adam Arshag Mazmanian
Stephen Scott Milt
Matthew Raymond Panetta
Ketul Jagdish Patel
Gregory Lorne Platt
Sherry Tonya Stallings
James John Wesolowski
Ken Yi Wong

2. Bachelor of Science in Biomedical Engineering (Engineering) page 29

Add: Richard Allen Ortt, Jr., of Parkville, Md.
Eljim Patrick Tesoro, of San Diego, Calif.

Delete: Stephanie April Hayes

3. Bachelor of Science in Computer Science (Engineering) page 29

Add: Hal Joshua Eisen, of Dix Hills, N.Y.

4. Bachelor of Science in Electrical Engineering (Engineering) page 30

Delete: Anthony Phillip Caruso
Brian Maso

5. Bachelor of Arts (Engineering) page 31

Delete: Erika Lynne Francis
Nana Nicole Nkrumah

6. Bachelor of Music (Peabody) page 32

Delete: Sun Myung Choi
Sharon Elizabeth Hack
Sumi Kay

7. Associate of Science (Continuing Studies) page 33

Delete: Ambrose Edward Gmeiner II

8. Bachelor of Liberal Arts (Continuing Studies) page 33

Delete: Kevin J. Gardner

9. Master of Science (Continuing Studies) pages 34-39

Add: Mary Patricia Dye, of Hanover, Pa.; B.S. Millersville University, 1984. Education.

Delete: Lorena Altair Clanton
Teresa Irene McCassell
Barton Fellows Walker III
Diana Frey Zilahy

10. Master of Liberal Arts (Continuing Studies) pages 39-40

Delete: Linda Susan Belosevic
Roxie Johnson

11. Master of Administrative Science (Continuing Studies) pages 40-49

Delete: Marjorie Clarisa Greene
Richard James Leppert
Patricia Ann Murphy
Monica E. Larson
Thomas J. Meier
Carol Ann Rubino

12. Master of Music (Peabody) pages 50-51

Delete: Angela Lee Raspa
Richard Steven Roth

13. Artist Diploma (Peabody) page 52

Delete: Deborah Anne Fleisher

14. Master of Public Health (Hygiene and Public Health) pages 54-59

Delete: Malcom Nathaniel Joseph III
Jordan Laub
Roland Stephen Tewogbola Onawola

15. Master of International Public Policy (Advanced International Studies) page 60

Delete: Elizabeth A. Hogan
Rolando Mena Guerrero

16. Master of Arts (Advanced International Studies) pages 61-67

Add: Pamela S. Chasek, of New Providence, N.J.; B.A. Middlebury College, 1983; M.A. University of Miami, 1986.

Kenneth John Conboy, of Arlington, Va.; B.S. Georgetown University, 1986.

Christopher Bradley Donnega, of Weston, Mass.; B.A. Boston College, 1986.

Bruce Walter Hammond, of Westport, Conn.; B.A. Amherst College, 1986.

Laura A. Hastings, of Cambridge, Mass.; B.A. Harvard College, 1982.

Alastair Gideon Rodd, of Rye, E. Sussex, England; B.Sc. Bristol University, 1987.

Alexander J. Skora, of Mountain Lakes, N.J.; B.A. Bucknell University, 1988.

Brian Paul Wynne, of Vestal, N.Y.; B.A. University of Scranton, 1980.

Delete:

Paal Aasmundrud
Hala Selim Al-Azar
Cyrus M. Behbehani
Denise Ellen Brennan
Davide V. Brocato
William A. Clifford
Marta Costanzo
PhieKing Dai
William E. Dillihunt
Shai Ari Franklin
Lee Martin Goldberg
Lawrence Lambert Hamlet
William Paul Harvey
Mohamud Ali Hashi
(Syed) Adnan Hassan
Daniel W. Hildreth
Anette Kaminski
Moazzam Ahmed Khan
Dennis G. LaComb
Franklin L. Lavin
Daniel Lederman Horwitz
Andrew Paul Leff
Timothy James May, Jr.
Sarah Anne McStravick
Kirsten Anne Michener
Masahiro Michizoe
Mohamed Farid Mohamed
John J. Moss
Joshua Paul Natkin
PyongChul Oh
Timothy Levon Parker
Chandler Cyle Prosser
Nina Manya Sonnenreich
Thorunn Sveinbjarnardottir
Mark William Whitcomb
Ned White
Timothy Edward Wilder
Koichi Yamaguchi

17. Master of Mechanical Engineering (Engineering) page 69

Add: Gina Caruso, of Hastings-on-Hudson, N.Y.; B.S.E. Duke University, 1987.

18. Master of Science (Engineering) pages 69-85

Add: David Eugene Haupt, of Severna Park, Md.; B.A. The Johns Hopkins University, 1972; M.A.S., 1979. Computer Science.

John Michael Italiano, of Staten Island, N.Y.; B.A. New York University, 1985. Computer Science.

Scott Walker Kirvan, of Concord, Mass.; B.S. Columbia University, 1986. Computer Science.

Thang Quoc Le, of Gaithersburg, Md.; B.S.E.E. George Washington University, 1988. Electrical Engineering.

Wayne Elton Smith, Jr., of Columbia, Md.; B.S. University of Oklahoma, 1968; M.S. University of Maryland, 1973; M.S. The Johns Hopkins University, 1983. Applied Mathematics.

Delete: Shivanand Basappa
Paul Francis Batchelor
Dung Quang Bui
Robert Daniel Dahm
Louis DiStefano
Ellen Carroll Dukes
Kana Kitazawa

19. Master of Science in Engineering (Engineering) pages 86-87

Add: Kristen D. Farrow, of Rochester, N.Y.; B.A. Bowdoin College, 1984. Mathematical Sciences. Neural Network Modeling and Nonlinear Optimization.

Delete: Paroo Dolar Koya
Jason Seth Rothman

20. Master of Arts (Arts and Sciences) pages 88-92

Add: Edward Charles Larson, of Charlottesville, Va.; B.A. University of Chicago, 1989. Physics and Astronomy. Design and Preparation of the SVX Silicon Microstrip Detector for the 1991 Top Quark Search at Fermilab.

Delete: Edward H. Sparrow

21. Doctor of Philosphy (Advanced International Studies) page 97

Delete: Ronald D. Asmus

22. Doctor of Philosophy (Arts and Sciences) pages 105-109

Add: Mohamad Elhage, of Beirut, Lebanon; M.A. The Johns Hopkins University, 1988. Economics. Monetary Policy and the Financial Sector's Role in Economic Development: A Case Study of Saudi Arabia.